

GE  
Energy

# Interfacelist Schnittstellenliste

4 x JGS 320 GS-L.L  
Nelson Gardens LFG  
J N795

INDEX: A

INDEX: B, Mader, 24.04.2012

Vorbehaltlich Techn. Änderungen!

Index: A

Index: B, Mader, 24.04.2012

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KEYWORD Kennwort : **Nelson Gardens LFG**

UNIT NO. Gerätenr. : **J N795**

MODULE TYPE Aggregattyp : **4 x JGS 320 GS-L.L**

ISSUE Erstellt : **TCE | Mader Manfred**

INDEX Index : **A,B**

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CHECKED Geprüft : **Elektrokonstruktion**

PAGE Blatt : **2 | 36**



**- GENERAL:**

ALL CONTROL CABLES MUST BE FLEXIBLE.  
POWER CABLES MUST BE WITH MULTIPLE-WIRE.  
THE CONDUCTORS SHALL BE OF COPPER.

**- DIGITAL SIGNAL**

1 S = 1 NO CONTACT  
1 Ö = 1 NC CONTACT  
1 W = 1 COC CHANGE OVER CONTACT

ALL REQUIRED NO AND NC CONTACTS ARE POTENTIALFREE (FLOATING) CONNECTED TO TERMINALS.

MAXIMUM CONTACT RATING FOR:

GE Jenbacher STANDARD RELAYS (Panasonic type HJ):  
24 VDC, 5 A / 230 VAC, 5 A

INTERFACE RELAY (Finder type 38): 24 VDC, 50 mA

RELAYS FOR CB CONTROL (Schrack MT 3330C4):

24 VDC, 10 A / 60 VDC, 1,5 A / 100 VDC, 0,5 A / 230 VDC, 0,2 A / 230 VAC, 10 A

PULSE INPUT PULSE TIME  $\geq$  1 sec., PAUSE TIME  $\geq$  1 sec.

**ANALOG SIGNAL**

**ANALOG INPUT CUSTOMERS TRANSDUCERS POTENTIALFREE (FLOATING)!**

ANALOG OUTPUT CUSTOMERS TRANSDUCERS POTENTIALFREE!

MAXIMUM APPARENT OHMIC RESISTANCE 100 OHMS BY mA-SIGNALS (0/4-20 mA).

ANALOG SIGNAL SCREENED CABLES, CABLE SCREEN TO GROUND ON BOTH SIDES!

**- SIGNALS FROM OUTSIDE OF THE BUILDING RESPECTIVELY WITH CONTAINERIZED MODULES IF THE SIGNAL CABLES END OUTSIDE OF THE COMMON GROUNDING SYSTEM:**

ON THE BUILDING ENTRANCE | CONTAINER ENTRANCE (AT THE GE JENBACHER SIDE AS WELL AS ON THE OPPOSITE CUSTOMER SIDE) ON THE CUSTOMERS SIDE PROTECTION ELEMENTS AGAINST OVERVOLTAGE SHALL BE PROVIDED BY THE CUSTOMER. FOR ANALOG SIGNALS USE DOUBLE SCREENED CABLES, FOR DIGITAL SIGNALS USE FOR MINIMUM SINGLE SCREENED CABLES.

A = MODULE CONTROL

L = GENERATOR C.B. PANEL

ST = MASTER CONTROL

ESY = SINGLE SYNCHRONIZING

SY = SYNCHRONIZATION |

NK = MAIN C.B. PANEL

NS = MAIN C.B.

RSY = RESYNCHRONIZING CUBICLE



## - Allgemein

Alle Steuerleitungen feindrätig ausführen.  
Leistungskabel zumindest mehrdrätig ausführen.  
Die Leiter müssen aus Kupfer sein.

## - Digitale Signale:

1 S = 1 Schließerkontakt  
1 Ö = 1 Öffnerkontakt  
1 W = 1 Wechslerkontakt

Alle ausgeführten Schließer- und Öffnerkontakte sind potentialfrei auf Klemmen gelegt.

Die max. Kontaktbelastung beträgt für

GE Jenbacher-Standardrelais (Panasonic Typ HJ):

24 VDC, 5 A / 230 VAC, 5 A

Koppelrelais (Finder Typ 38): 24 VDC, 50 mA

Relais für Schaltersteuerung (Schrack MT 3330C4):

24 VDC, 10 A / 60 VDC, 1,5 A / 100 VDC, 0,5 A / 230 VDC, 0,2 A / 230 VAC, 10 A

Zählimpulse: Impulsdauer  $\geq$  1 Sekunde, Pausendauer  $\geq$  1 Sekunde

## Analoge Signale:

### Analogeingänge: Kundenseitige Signalgeber potentialfrei!

Analogausgänge: Kundenseitige Signalaufnehmer potentialfrei! Max. Bürde 100 Ohm bei Signalen 0/4-20 mA.

Analogsignale: Geschirmte Kabel, Kabelschirm beidseitig geerdet!

## - Signale von außerhalb des Gebäudes bzw. wenn bei Containeraggregaten die Signalkabel außerhalb der gemeinsamen Erdungsanlage enden:

Am Gebäudeeintritt | Containereintritt (sowohl auf der GE Jenbacher –Seite als auch auf der gegenüberliegenden Kunden – Seite) sind bauseits Schutzelemente gegen Überspannungen vorzusehen.

Dimensionierung nach Rücksprache mit GE Jenbacher. Für Analogsignale sind doppelt geschirmte Kabel zu verwenden, für digitale Signale sind mindestens einfach geschirmte Kabel zu verwenden.

A = Modulsteuerung

L = Generatorfeld

ST = Stationssteuerung

ESY = Einzelsynchronisierung

SY = Synchronisierung

NK = Netzkuppfeld

NS = Netzkuppelschalter

RSY = Rücksynchronisierung



**I ENGINE CONTROL AND INTERFACES PER ENGINE**  
**I Modulsteuerung und Schnittstellen pro Modul**

1	GENERATOR POWER Leistungsabgang Generator	GE Jenbacher +G	CUSTOMER Kunde	480/277 V +/- 10%, 60 Hz 1311kVA, 1577 A bei cos phi = 0,8 1059kW, 1274A bei cos phi = 1	---	
2	SERVICE GROUNDING GENERATOR Betriebserdung Generator	CUSTOMER Kunde	GE Jenbacher +G		1	
3	EQUIPOTENTIAL BONDING Potentialausgleich	CUSTOMER Kunde	GE Jenbacher	CROSS-SECTIONAL AREA ACCORDING TO IEC 60364-5-54 AND NATIONAL STANDARDS. MINIMUM CROSS-SECTIONAL AREA 16 qmm Cu. CONNECTION AT THE ENGINE CONTROL PANEL Querschnitt nach IEC 60364-5-54 und nationalen Normen. Mindestquerschnitt 16 qmm Cu. Anschluß Modulsteuerschrank	1	
4	EQUIPOTENTIAL BONDING Potentialausgleich	CUSTOMER Kunde	GE Jenbacher	CROSS-SECTIONAL AREA ACCORDING TO IEC 60364-5-54 AND NATIONAL STANDARDS. MINIMUM CROSS-SECTIONAL AREA 50 qmm Cu. CONNECTION AT THE GENSET Querschnitt nach IEC 60364-5-54 und nationalen Normen. Mindestquerschnitt 50 qmm Cu. Anschluss am Aggregatrahmen	1	
5 - 12						A
13	GENERATOR VOLTAGE "C" Generatorspannung "C"	CUSTOMER Kunde	GE Jenbacher +A	3 x 480 / 277 V, 50 VA, CI. 0,5 WITH SINGLE POLE INSULATED PT'S Wandler: 1 polig isoliert	5	
14	STATUS: READY FOR AUTOMATIC DEMAND Status: Bereit für Automatanforderung	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT CLOSED = READY 1 S Kontakt geschlossen = Bereit max. Kontaktbelastung: 24 VDC, 50 mA	2	
15	DEMAND MODULE Anforderung Modul	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = DEMAND 1 S Kontakt geschlossen = Anforderung	2	
16						



17	STATUS: MODULE IS DEMANDED Status: Modul ist angefordert	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT CLOSED = DEMANDED MAXIMUM CONTACT RATING : 24 VDC, 50 mA 1 S Kontakt geschlossen = Angefordert max. Kontaktbelastung: 24 VDC, 50 mA	2
18	DEMAND FOR AUXILIARIES (VENTILATION, HOT WATER PUMP ETC.) Anforderung Hilfsbetriebe (Lüftung, Heizwasserpumpe etc.)	GE Jenbacher +A	CUSTOMER Kunde	2 NO CONTACT CLOSED = DEMAND 2 S Kontakt geschlossen = Anforderung	4
19	STATUS: AUXILIARIES ARE O.K. AND IN OPERATION Status: Hilfsbetriebe sind in Betrieb (Freigabe von den Hilfsbetrieben)	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = RELEASE 1 S Kontakt geschlossen = Freigabe	2
20	STATUS: OPERATION   ENGINE IS RUNNING Status: Betrieb   Motor läuft	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT CLOSED = SERVICE MAXIMUM CONTACT RATING : 24 VDC, 50 mA 1 S Kontakt geschlossen = Betrieb max. Kontaktbelastung: 24 VDC, 50 mA	2
21	STATUS: GENERAL TRIP Status: Sammelstörung abstellend	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT OPEN = TRIP MAXIMUM CONTACT RATING : 24 VDC, 50 mA 1 S Kontakt offen = Abstellen max. Kontaktbelastung: 24 VDC, 50 mA	2
22	STATUS: GENERAL WARNING Status: Sammelstörung warnend	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT OPEN = WARNING MAXIMUM CONTACT RATING : 24 VDC, 50 mA 1 S Kontakt offen = Warnung max. Kontaktbelastung: 24 VDC, 50 mA	2
23	STATUS MESSAGE: EMERGENCY STOP PER ENGINE Statusmeldung: Not-Halt pro Modul	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT OPEN = MESSAGE EMERGENCY STOP PER ENGINE 1 S Kontakt offen = Meldung Not-Halt pro Modul	2
24 - 26					
27	EXTERNAL POWER SETPOINT REDUCTION IMPORT/EXPORT Externe Leistungsabsenkung Import/Export	CUSTOMER Kunde	GE Jenbacher	0(4)-20 mA = ... bis ... P <sub>N</sub> BURDEN: max. 500 Ohm SIGNAL: IS FLOATING Bürde: max 500 Ohm Signal: potentialfrei	2



27.1	STATUS: RELEASE MAINS POWER CONSUMPTION IMPORT/EXPORT Status: Freigabe Netzbezugsleistung Import/Export	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = RELEASE 1 S Kontakt geschlossen = Freigabe	2	B
28	SET POINT FOR GENERATOR POWER Sollwert für Generatorwirkleistung	CUSTOMER Kunde	GE Jenbacher +A	0(4)-20 mA = 50-100 % PN BURDEN: max. 500 Ohm SIGNAL: IS FLOATING Bürde: max 500 Ohm Signal: potentialfrei	2	
29	SIGNAL GENERATOR POWER Messsignal Generatorwirkleistung	GE Jenbacher +A	CUSTOMER Kunde	0-20 mA = - 300 kW - +1200. kW	2	
30	SIGNAL GENERATOR ENERGY Messsignal Generatorenergie	GE Jenbacher +A	CUSTOMER Kunde	1 Imp. = 100 kWh MAXIMUM CONTACT RATING : 24 VDC, 50 mA max. Kontaktbelastung: 24 VDC, 50 mA	3	
31 - 38						
39	COMMAND: EMERGENCY STOP PER ENGINE Befehl: Not-Halt pro Modul	CUSTOMER Kunde	GE Jenbacher +A	1 NC CONTACT OPEN = EMERGENCY STOP PER ENGINE Emergency stop device according to ISO 13850 and IEC/ EN 60947-5-5 1 Ö Kontakt offen = Not-Halt pro Modul Not-Halt-Gerät nach ISO 13850 und IEC/ EN 60947-5-5	2	
40						
40.1	GAS PRE-ALARM Gasvoralarm	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT OPEN = PRE-ALARM 1 S Kontakt offen = Voralarm	2	
40.2	GAS ALARM Gasalarm	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT OPEN = ALARM 1 S Kontakt offen = Alarm	2	
41	FIRE ALARM Brandalarm	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT OPEN = ALARM 1 S Kontakt offen = Alarm	2	
42 - 48						
49	AUXILIARIES Hilfsbetriebe					



49.1						
-						
49.6						
49.7	COMMAND: PREHEATING PUMP Anforderung: Vorwärmpumpe EIN <b>M.04-M-002</b>	GE Jenbacher +A	CUSTOMER Kunde	1NO CONTACT CLOSED= DEMAND 1 S Kontakt geschlossen = Befehl EIN	2	
49.8						
49.9	SUPPLY PREHEATING PUMP Versorgung Vorwärmpumpe <b>M.04-M-002</b>	CUSTOMER Kunde	GE Jenbacher +E	3x 480 V, 60 Hz, 370W	4	
49.10	COMMAND: HEATING RODS ON Anforderung: Vorwärmung Heizstäbe EIN <b>M.04-W-002</b>	GE Jenbacher +A	CUSTOMER Kunde	1NO CONTACT CLOSED= DEMAND 1 S Kontakt geschlossen = Befehl EIN	2	
49.11	SUPPLY HEATING RODS Versorgung Heizstäbe <b>M.04-W-002</b>	CUSTOMER Kunde	GE Jenbacher +E	3x 480 V; 60 Hz; 8,6kW	4	
49.12						
49.13	SUPPLY BATTERY CHARGER Versorgung Ladegerät	CUSTOMER Kunde	GE Jenbacher +E	3x 480 V, 60 Hz, 6A	4	
49.14	COMMAND: ANTI CONDENSATION HEATER ON Anforderung: Stillstandsheizung EIN	GE Jenbacher +A	CUSTOMER Kunde	1NO CONTACT CLOSED= DEMAND 1 S Kontakt geschlossen = Befehl EIN USA	2	
49.15	SUPPLY ANTI CONDENSATION HEATER Versorgung Stillstandsheizung	CUSTOMER Kunde	GE Jenbacher +E	240V, 60Hz	3	
49.16	SUPPLY PANEL AIR CONDITIONER Versorgung Schaltschrankklimagerät	CUSTOMER Kunde	GE Jenbacher +E	240 V, 60 Hz, 10A	4	
50						
-						
53						
<b>54</b>	<b>INTERCOOLING CIRCUIT</b> <b>Gemischkreis</b>					
54.1	INTERCOOLER WATER PRESSURE LOW Gemischkühlwasserdruck min.	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT OPEN = LOW 1 S Kontakt offen = min.	2	
54.2	DEMAND INTERCOOLING WATER PUMP Anforderung: Gemischkühlwasserpumpe <b>P.07-M-003</b>	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT CLOSED = DEMAND 1 S Kontakt geschlossen = Anforderung	2	





54.3	STATUS: INTERCOOLING WATER PUMP RUNNING Betriebsmeldung Gemischkühlwasserpumpe P.07-M-003	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = OPERATION 1 S Kontakt geschlossen = Betrieb	2	
55	<b>COOLING CIRCUIT</b> Kühlkreis					
55.1	COOLER WATER PRESSURE LOW Kühlwasserdruck min.	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT OPEN = LOW 1 S Kontakt offen = min.	2	
55.2						
-						
55.5						
55.6	DEMAND COOLING VENTILATION FANS Anforderung Kühlventilatoren P.04-W-003 [...]	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT CLOSED = DEMAND 1 S Kontakt geschlossen = Anforderung	2	
55.7						
-						
55.17						
55.18	STATUS FAILURE EMERGENCY COOLING WATER FAN (MICRO C.B.) Status: Notkühlventilatoren gestört (Motorschutz, ...)	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT OPEN = FAILURE 1 S Kontakt offen = Störung	2	
56	<b>ROOM VENTILATION</b> Raumlüftung					
56.1	ROOM TEMPERATURE Raumtemperatur	CUSTOMER Kunde	GE Jenbacher +A	3-WIRE PT100 3-Leiter PT100	3	
57						
-						
59						
60	<b>BIOGAS   LANDFILLGAS   SEWAGEGAS</b>   MINEGAS Biogas   Deponiegas   Klärgas   Grubengas					
60.1	LOCK / RELEASE FOR GAS ENGINES FROM GAS SUPPLY Blockierung / Freigabe für Gasmotoren aus der Gasversorgung	CUSTOMER Kunde	GE Jenbacher	1 NO CONTACT OPEN = LOCK 1 NO CONTACT CLOSED = RELEASE 1 S Kontakt offen = Blockierung 1 S Kontakt geschlossen = Freigabe	2	A



60.2	DEACTIVATION POWER LIMITATION FROM CH4 CONTENT <a href="#">Deaktivierung Leistungsbegrenzung über CH4-Gehalt</a>	CUSTOMER <a href="#">Kunde</a>	GE Jenbacher +A	1 NO CONTACT OPEN = POWER LIMITATION ACTIVE 1 NO CONTACT CLOSED = POWER LIMITATION INACTIVE <a href="#">1 S Kontakt offen = Leistungsbegrenzung aktiv</a> <a href="#">1 S Kontakt geschlossen = Leistungsbegrenzung inaktiv</a>	2	
60.3 -						
60.4						
60.5	CALIBRATION OF THE GAS ANALYSIS RUNNING <a href="#">Kalibrierung der Gasanalyse läuft</a>	CUSTOMER <a href="#">Kunde</a>	GE Jenbacher +A	1 NO CONTACT OPEN = SIGNALS OK 1 NO CONTACT CLOSED = CALIBRATION IS RUNNING <a href="#">1 S Kontakt offen = Signale OK</a> <a href="#">1 S Kontakt geschlossen = Kalibrierung läuft</a>	2	
61	<b>BIOGAS   LANDFILLGAS   SEWAGEGAS   MINEGAS</b> <a href="#">Biogas   Deponiegas   Klärgas   Grubengas</a>					
61.1						
61.2	STATUS: CH4 CONTENT <a href="#">Status: CH4-Gehalt</a>	CUSTOMER <a href="#">Kunde</a>	GE Jenbacher +A	4-20 mA = 0-... % Vol. PERMISSIBLE BURDEN: 500 Ohm. SIGNAL POTENTIAL FREE! <a href="#">Zulässige Bürde: 500 Ohm</a> <a href="#">Messsignal potentialfrei!</a>	2	
62 -						
74						
75	BUSBAR VOLTAGE <a href="#">Sammelschienspannung</a>	CUSTOMER <a href="#">Kunde</a>	GE Jenbacher +A	3x 480 / 277 V, 50Hz, 100 VA, Cl. 0,5 WITH SINGLE POLE INSULATED PT'S <a href="#">Wandler: 1 polig isoliert</a>	5	
76	OPENING FAILURE GENERATOR CIRCUIT BREAKER <a href="#">Generatorschalter Ausschaltstörung</a>	GE Jenbacher +A	CUSTOMER <a href="#">Kunde</a>	1 NO CONTACT CLOSED = OPENING FAILURE <a href="#">1 S Kontakt geschlossen = Ausschaltstörung</a>	2	
77						



78	COMMAND: GENERATOR C.B. ON OFF Befehl: Generatorschalter EIN AUS	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT CLOSED = C.B. CLOSED 1 NC CONTACT CLOSED = C.B. OPEN 1 S Kontakt geschl. = Schalter zu 1 Ö Kontakt geschl. = Schalter auf	4
79	COMMAND UNDERVOLTAGE COIL GENERATOR C.B. Ansteuerung Unterspannungsauslöser Generatorschalter	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT CLOSED = ENERGIZED 1 S Kontakt geschlossen = angeregt	2
80	STATUS: GENERATOR C.B. CLOSED Status: Generatorschalter geschlossen	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = C.B. CLOSED 1 S Kontakt geschlossen = Schalter geschlossen	2
81	STATUS: GENERATOR C.B. OPEN Status: Generatorschalter offen	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = C.B. OPEN 1 S Kontakt geschlossen = Schalter offen	2
82	STATUS: GENERATOR C.B. READY FOR CLOSURE Status: Generatorschalter einschaltbereit	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = READY 1 S Kontakt geschlossen = einschaltbereit	2
83	STATUS: GENERATOR C.B. IS RACKED IN Status: Generatorschalter Schalterwagen eingefahren	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = RACKED IN 1 S Kontakt geschlossen = eingefahren	2
84	STATUS: GENERATOR OVERLOAD  SHORT CIRCUIT Status: Generator Überlast   Kurzschluß	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT OPEN = TRIP 1 S Kontakt offen = Überlast  Kurzschluß	2
84.1	STATUS: GENERATOR PROTECTION TRIP Status: Generatorschutz ausgelöst	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT OPEN = PROTECTION TRIP 1 S Kontakt offen = Schutz ausgelöst	2
85	STATUS: GRID FAULT Status: Netz gestört	GE Jenbacher +A	CUSTOMER Kunde	1 NO CONTACT OPEN = FAULT 1 S Kontakt offen = Netz gestört	2
86 - 108					
109	GRID OK Netz ok	CUSTOMER Kunde	GE Jenbacher +A	1 NO CONTACT CLOSED = GRID OK 1 S Kontakt geschlossen = Netz ok	2
110 - 199					



IV REMOTE DATA TRANSMISSION WITH HERMES

IV Datenfernübertragung mit HERMES

[x] see: DIA.NE WIN User Manual → 5. Network structure and interfaces

[x] siehe: DIA.NE WIN Benutzerhandbuch → 5. Netzwerkstruktur und Schnittstellen

200 -						
201						
202	TELEFON LINE [5] Telefonverbindung [5]	CUSTOMER Kunde	GE Jenbacher	WITHOUT TARIFEPULSE WITH OVERVOLTAGE SUPPRESSION ON THE CUSTOMER SIDE ohne Impulsaufschaltung mit bauseitigem Überspannungsschutz		
203	ETHERNET CONNECTION TO THE LOCAL RDT –CENTER “Installation network [2]” (LAN connection [4], OPC optional [7]) Ethernet Verbindung zur lokalen DFÜ Zentrale “Anlagennetz [2]“ (LAN-Anbindung [4], OPC optional [7])	GE Jenbacher	CUSTOMER Kunde	ETHERNET 10/100Mbit CABLE: TWISTED PAIR, SOCKET: RJ45 Kabel: twisted pair, Buchse: RJ45		
204	INTERNET CONNECTION [6] INTERNET-Anbindung [6] (DSL-MODEM, INTERNET ROUTER, MEDIEN CONVERTER, SATELITE MODEM ...)	CUSTOMER Kunde	GE Jenbacher	ETHERNET 10/100Mbit CABLE: TWISTED PAIR, SOCKET: RJ45 Kabel: twisted pair, Buchse: RJ45		
205	INTERNET CONNECTION [6] INTERNET-Anbindung [6] (USB-MODEM) See Technical Instruction No.: 2300-0007 Siehe Technische Anweisung Nr.: 2300-0007	CUSTOMER Kunde	GE Jenbacher	USB, TYPE A SOCKET USB, Type A Buchse		



V DATA TRANSMISSION TO THE CUSTOMER (DIA.NE XT V2.1x – V3.3x)

V Datenübertragung zu bauseitigen Systemen (DIA.NE XT V2.1x – V3.3x)

MODBUS-RTU

See diagram "MODBUS-RTU" J N7954300 00 +U/page .... !

Data transmission: The GE Jenbacher control is working as passive counterpart (slave).  
The data transmission by the customer's computer (master) must be made cyclically.  
Communication failure detection: in the master.

**Register-address: The corresponding register-address in the customer's computer (master) can be register-address +1, depending on the target system.**

Interface specifications: Baud rate: 9600 bits/s  
character length: 8 bit  
stopbits: 1  
parity: none

Arrangement of the send-|receive data: see behind.

The stated data numbers refer to the interface-number.

Data numbers > 1000: see "Message No. (Meldungs-Nr.)" in the "ALARM LIST".

Data bit = 1, if failure exists resp. if service-message exists

Measured values: data size = 2 bytes (= 1 word) = 1 register  
data format: see comment at the interface-number

**ATTENTION:**

**The data via MODBUS are not permitted to be used for time critical functions and are not permitted to be used for safety functions! Only data stated in this interface list are permitted to be addressed by the master!**

Siehe Schaltplan "MODBUS-RTU" J N7954300 00 +U/Blatt ... !

Datentransfer: Die GE Jenbacher-Steuerung arbeitet als passiver Teilnehmer (Slave).  
Der Datentransfer durch den bauseitigen Master muß zyklisch durchgeführt werden.  
Kommunikationsfehlerüberwachung: im Master.

**Register-Adressen: Die korrespondierende Register-Adresse im bauseitigen Computer (Master) kann, abhängig vom Zielsystem, die angegebene Register-Adresse +1 sein.**

Schnittstellendaten: Baudrate: 9600 Bit/s  
Zeichenlänge: 8 Bit  
Anz. Stopbits: 1  
Parität: keine (none)

Anordnung der Sende-|Empfangsdatenpunkte: siehe hinten

Die angeführten Datenpunkt-Nummern beziehen sich auf die Schnittstellen-Nummer.

Datenpunkt-Nummern > 1000: siehe "Meldungs-Nr." in der "STÖRMELDELISTE".

Datenbit = 1 bei anstehender Störung bzw. anstehender Betriebsmeldung



Messwerte:                    Datengröße = 2 Bytes (= 1 Wort) = 1 Register  
                                      Datenformat: siehe Bemerkung zur Schnittstellennummer

**ACHTUNG:**

**Die Daten über den MODBUS dürfen nicht für zeitkritische Funktionen und dürfen nicht für Sicherheitsfunktionen verwendet werden !**

**Vom Master dürfen nur in dieser Schnittstellenliste angeführte Daten angesprochen werden !**

IFLno SSLNr	DESIGNATION Benennung	FROM VON	TO ZU	COMMENT BEMERKUNG	INDEX
400	Hardwareinterface for MODBUS: Bus terminal RS485 in the GE Jenbacher control cubicle. Hardwareschnittstelle für Anschluß an den MODBUS: Busterminal RS485 im GE Jenbacher-Steuerschrank	GE Jenbacher control cubicle SLAVE GE Jenbacher Steuer-schrank SLAVE	Customer's computer MASTER Bauseitiger Computer MASTER	An equipotential bonding must be produced between the GE Jenbacher module control and the customer's computer by the customer! Zwischen dem GE Jenbacher-Steuerschrank und dem bauseitigen Computer ist bauseits ein Potentialausgleich herzustellen!	



**SEND DATA Register-addresses R000 – R031 (decimal)**

**SENDEDATEN Register-Adressen R000 – R031 (dezimal)**

SOURCE: GE Jenbacher module control 1-x = SLAVE 11 (decimal) .... 1x  
 Quelle: GE Jenbacher Modulsteuerung 1-x = SLAVE 11 (dezimal) .... 1x

TARGET SYSTEM: CUSTOMER'S COMPUTER (MASTER)  
 Ziel: Bauseitiger Computer (Master)

FUNCTION CODE: 03 READ HOLDING REGISTERS (4xxxx references)  
 Funktionscode: 03 READ HOLDING REGISTERS (4xxxx references)

	MSB														LSB	
R000	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001
R001	1032	1031	1030	1029	1028	1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017
R002	1048	1047	1046	1045	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035	1034	1033
R003	1064	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053	1052	1051	1050	1049
R004	1080	1079	1078	1077	1076	1075	1074	1073	1072	1071	1070	1069	1068	1067	1066	1065
R005	1096	1095	1094	1093	1092	1091	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081
R006	1112	1111	1110	1109	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099	1098	1097
R007	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1115	1114	1113
R008	1144	1143	1142	1141	1140	1139	1138	1137	1136	1135	1134	1133	1132	1131	1130	1129
R009	1160	1159	1158	1157	1156	1155	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145
R010	1176	1175	1174	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164	1163	1162	1161
R011	1192	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182	1181	1180	1179	1178	1177
R012	1208	1207	1206	1205	1204	1203	1202	1201	1200	1199	1198	1197	1196	1195	1194	1193
R013	1224	1223	1222	1221	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211	1210	1209
R014	440	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425
R015	456	455	454	453	452	451	450	449	448	447	446	445	444	443	442	441
R016	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
R017	2032	2031	2030	2029	2028	2027	2026	2025	2024	2023	2022	2021	2020	2019	2018	2017
R018	2048	2047	2046	2045	2044	2043	2042	2041	2040	2039	2038	2037	2036	2035	2034	2033
R019	2064	2063	2062	2061	2060	2059	2058	2057	2056	2055	2054	2053	2052	2051	2050	2049
R020	2080	2079	2078	2077	2076	2075	2074	2073	2072	2071	2070	2069	2068	2067	2066	2065
R021	2096	2095	2094	2093	2092	2091	2090	2089	2088	2087	2086	2085	2084	2083	2082	2081
R022	2112	2111	2110	2109	2108	2107	2106	2105	2104	2103	2102	2101	2100	2099	2098	2097
R023					2573	2572	2571	2501	2120	2119	2118	2117	2116	2115	2114	2113
R024																
R025																
R026																
R027																
R028																
R029																
R030	561	560	559	558	557	556	555	554	553	552	551	550	549	548	547	546
R031	<---	----	----	----	600	----	----	--->	598	597	596	595	594	593	592	591



**SEND DATA Register-addresses R032 – R063 (decimal)**

**SENDEDATEN Register-Adressen R032 – R063 (dezimal)**

SOURCE: GE Jenbacher module control 1-x = SLAVE 11 (decimal) .... 1x  
 Quelle: GE Jenbacher Modulsteuerung 1-x = SLAVE 11 (dezimal) .... 1x

TARGET SYSTEM: CUSTOMER'S COMPUTER (MASTER)  
 Ziel: Bauseitiger Computer (Master)

FUNCTION CODE: 03 READ HOLDING REGISTERS (4xxxx references)  
 Funktionscode: 03 READ HOLDING REGISTERS (4xxxx references)

	MSB															LSB
R032	3016	3015	3014	3013	3012	3011	3010	3009	3008	3007	3006	3005	3004	3003	3002	3001
R033	3032	3031	3030	3029	3028	3027	3026	3025	3024	3023	3022	3021	3020	3019	3018	3017
R034	3048	3047	3046	3045	3044	3043	3042	3041	3040	3039	3038	3037	3036	3035	3034	3033
R035	3064	3063	3062	3061	3060	3059	3058	3057	3056	3055	3054	3053	3052	3051	3050	3049
R036	3080	3079	3078	3077	3076	3075	3074	3073	3072	3071	3070	3069	3068	3067	3066	3065
R037	3096	3095	3094	3093	3092	3091	3090	3089	3088	3087	3086	3085	3084	3083	3082	3081
R038	3112	3111	3110	3109	3108	3107	3106	3105	3104	3103	3102	3101	3100	3099	3098	3097
R039	3128	3127	3126	3125	3124	3123	3122	3121	3120	3119	3118	3117	3116	3115	3114	3113
R040	3144	3143	3142	3141	3140	3139	3138	3137	3136	3135	3134	3133	3132	3131	3130	3129
R041	3160	3159	3158	3157	3156	3155	3154	3153	3152	3151	3150	3149	3148	3147	3146	3145
R042	3176	3175	3174	3173	3172	3171	3170	3169	3168	3167	3166	3165	3164	3163	3162	3161
R043	3192	3191	3190	3189	3188	3187	3186	3185	3184	3183	3182	3181	3180	3179	3178	3177
R044	3208	3207	3206	3205	3204	3203	3202	3201	3200	3199	3198	3197	3196	3195	3194	3193
R045	3224	3223	3222	3221	3220	3219	3218	3217	3216	3215	3214	3213	3212	3211	3210	3209
R046	3316	3315	3314	3313	3312	3311	3310	3309	3308	3307	3306	3305	3304	3303	3302	3301
R047	3332	3331	3330	3329	3328	3327	3326	3325	3324	3323	3322	3321	3320	3319	3318	3317
R048	3348	3347	3346	3345	3344	3343	3342	3341	3340	3339	3338	3337	3336	3335	3334	3333
R049	3364	3363	3362	3361	3360	3359	3358	3357	3356	3355	3354	3353	3352	3351	3350	3349
R050	3380	3379	3378	3377	3376	3375	3374	3373	3372	3371	3370	3369	3368	3367	3366	3365
R051	3396	3395	3394	3393	3392	3391	3390	3389	3388	3387	3386	3385	3384	3383	3382	3381
R052	3416	3415	3414	3413	3412	3411	3410	3409	3408	3407	3406	3405	3404	3403	3402	3401
R053	3432	3431	3430	3429	3428	3427	3426	3425	3424	3423	3422	3421	3420	3419	3418	3417
R054	3448	3447	3446	3445	3444	3443	3442	3441	3440	3439	3438	3437	3436	3435	3434	3433
R055	3464	3463	3462	3461	3460	3459	3458	3457	3456	3455	3454	3453	3452	3451	3450	3449
R056	3480	3479	3478	3477	3476	3475	3474	3473	3472	3471	3470	3469	3468	3467	3466	3465
R057	3496	3495	3494	3493	3492	3491	3490	3489	3488	3487	3486	3485	3484	3483	3482	3481
R058	3512	3511	3510	3509	3508	3507	3506	3505	3504	3503	3502	3501	3500	3499	3498	3497
R059	3528	3527	3526	3525	3524	3523	3522	3521	3520	3519	3518	3517	3516	3515	3514	3513
R060	3544	3543	3542	3541	3540	3539	3538	3537	3536	3535	3534	3533	3532	3531	3530	3529
R061	3560	3559	3558	3557	3556	3555	3554	3553	3552	3551	3550	3549	3548	3547	3546	3545
R062	3576	3575	3574	3573	3572	3571	3570	3569	3568	3567	3566	3565	3564	3563	3562	3561
R063	<---	----	----	----	600	----	----	---								





**SEND DATA Register-addresses R064 – R095 (decimal)**

**SENDEDATEN Register-Adressen R064 – R095 (dezimal)**

SOURCE: GE Jenbacher module control 1-x = SLAVE 11 (decimal) .... 1x  
 Quelle: GE Jenbacher Modulsteuerung 1-x = SLAVE 11 (dezimal) .... 1x

TARGET SYSTEM: CUSTOMER'S COMPUTER (MASTER)  
 Ziel: Bauseitiger Computer (Master)

FUNCTION CODE: 03 READ HOLDING REGISTERS (4xxxx references)  
 Funktionscode: 03 READ HOLDING REGISTERS (4xxxx references)

	MSB								LSB								
R064	<---	----	----	----	----	----	500	----	----	----	----	----	----	----	----	----	---
R065	<---	----	----	----	----	----	501	----	----	----	----	----	----	----	----	----	---
R066	<---	----	----	----	----	----	502	----	----	----	----	----	----	----	----	----	---
R067	<---	----	----	----	----	----	503	----	----	----	----	----	----	----	----	----	---
R068	<---	----	----	----	----	----	504	----	----	----	----	----	----	----	----	----	---
R069	<---	----	----	----	----	----	505	----	----	----	----	----	----	----	----	----	---
R070	<---	----	----	----	----	----	506	----	----	----	----	----	----	----	----	----	---
R071	<---	----	----	----	----	----	507	----	----	----	----	----	----	----	----	----	---
R072	<---	----	----	----	----	----	508	----	----	----	----	----	----	----	----	----	---
R073	<---	----	----	----	----	----	509	----	----	----	----	----	----	----	----	----	---
R074	<---	----	----	----	----	----	510	----	----	----	----	----	----	----	----	----	---
R075	<---	----	----	----	----	----	511	----	----	----	----	----	----	----	----	----	---
R076	<---	----	----	----	----	----	512	----	----	----	----	----	----	----	----	----	---
R077	<---	----	----	----	----	----	513	----	----	----	----	----	----	----	----	----	---
R078	<---	----	----	----	----	----	514	----	----	----	----	----	----	----	----	----	---
R079	<---	----	----	----	----	----	515	----	----	----	----	----	----	----	----	----	---
R080	<---	----	----	----	----	----	516	----	----	----	----	----	----	----	----	----	---
R081	<---	----	----	----	----	----	517	----	----	----	----	----	----	----	----	----	---
R082	<---	----	----	----	----	----	518	----	----	----	----	----	----	----	----	----	---
R083	<---	----	----	----	----	----	519	----	----	----	----	----	----	----	----	----	---
R084	<---	----	----	----	----	----	520	----	----	----	----	----	----	----	----	----	---
R085	<---	----	----	----	----	----	521	----	----	----	----	----	----	----	----	----	---
R086	<---	----	----	----	----	----	522	----	----	----	----	----	----	----	----	----	---
R087	<---	----	----	----	----	----	523	----	----	----	----	----	----	----	----	----	---
R088	<---	----	----	----	----	----	524	----	----	----	----	----	----	----	----	----	---
R089	<---	----	----	----	----	----	525	----	----	----	----	----	----	----	----	----	---
R090	<---	----	----	----	----	----	526	----	----	----	----	----	----	----	----	----	---
R091	<---	----	----	----	----	----	527	----	----	----	----	----	----	----	----	----	---
R092	<---	----	----	----	----	----	528	----	----	----	----	----	----	----	----	----	---
R093	<---	----	----	----	----	----	529	----	----	----	----	----	----	----	----	----	---
R094	<---	----	----	----	----	----	530	----	----	----	----	----	----	----	----	----	---
R095	<---	----	----	----	----	----	531	----	----	----	----	----	----	----	----	----	---



**SEND DATA Register-addresses R096 – R127 (decimal)**

**SENDEDATEN Register-Adressen R096 – R127 (dezimal)**

SOURCE: GE Jenbacher module control 1-x = SLAVE 11 (decimal) .... 1x  
 Quelle: GE Jenbacher Modulsteuerung 1-x = SLAVE 11 (dezimal) .... 1x

TARGET SYSTEM: CUSTOMER'S COMPUTER (MASTER)  
 Ziel: Bauseitiger Computer (Master)

FUNCTION CODE: 03 READ HOLDING REGISTERS (4xxxx references)  
 Funktionscode: 03 READ HOLDING REGISTERS (4xxxx references)

	MSB								LSB							
R096	<---	---	---	---	---	---	532	---	---	---	---	---	---	---	---	---
R097	<---	---	---	---	---	---	533	---	---	---	---	---	---	---	---	---
R098	<---	---	---	---	---	---	534	---	---	---	---	---	---	---	---	---
R099	<---	---	---	---	---	---	535	---	---	---	---	---	---	---	---	---
R100	<---	---	---	---	---	---	536	---	---	---	---	---	---	---	---	---
R101	<---	---	---	---	---	---	537	---	---	---	---	---	---	---	---	---
R102	<---	---	---	---	---	---	538	---	---	---	---	---	---	---	---	---
R103	<---	---	---	---	---	---	539	---	---	---	---	---	---	---	---	---
R104	<---	---	---	---	---	---	540	---	---	---	---	---	---	---	---	---
R105	<---	---	---	---	---	---	541	---	---	---	---	---	---	---	---	---
R106	<---	---	---	---	---	---	542	---	---	---	---	---	---	---	---	---
R107	<---	---	---	---	---	---	543	---	---	---	---	---	---	---	---	---
R108	<---	---	---	---	---	---	544	---	---	---	---	---	---	---	---	---
R109	<---	---	---	---	---	---	545	---	---	---	---	---	---	---	---	---
R110	<---	---	---	---	---	---	Res.	---	---	---	---	---	---	---	---	---
R111	<---	---	---	---	---	---	Res.	---	---	---	---	---	---	---	---	---
R112	<---	---	---	---	---	---	601	---	---	---	---	---	---	---	---	---
R113	<---	---	---	---	---	---	602	---	---	---	---	---	---	---	---	---
R114	<---	---	---	---	---	---	603	---	---	---	---	---	---	---	---	---
R115	<---	---	---	---	---	---	604	---	---	---	---	---	---	---	---	---
R116	<---	---	---	---	---	---	605	---	---	---	---	---	---	---	---	---
R117	<---	---	---	---	---	---	606	---	---	---	---	---	---	---	---	---
R118	<---	---	---	---	---	---	607	---	---	---	---	---	---	---	---	---
R119	<---	---	---	---	---	---	608	---	---	---	---	---	---	---	---	---
R120	<---	---	---	---	---	---	609	---	---	---	---	---	---	---	---	---
R121	<---	---	---	---	---	---	610	---	---	---	---	---	---	---	---	---
R122	<---	---	---	---	---	---	611	---	---	---	---	---	---	---	---	---
R123	<---	---	---	---	---	---	612	---	---	---	---	---	---	---	---	---
R124	<---	---	---	---	---	---	613	---	---	---	---	---	---	---	---	---
R125	<---	---	---	---	---	---	614	---	---	---	---	---	---	---	---	---
R126	<---	---	---	---	---	---	615	---	---	---	---	---	---	---	---	---
R127	<---	---	---	---	---	---	616	---	---	---	---	---	---	---	---	---



**SEND DATA Register-addresses R128 – R159 (decimal)**

**SENDEDATEN Register-Adressen R128 – R159 (dezimal)**

SOURCE: GE Jenbacher module control 1-x = SLAVE 11 (decimal) .... 1x  
 Quelle: GE Jenbacher Modulsteuerung 1-x = SLAVE 11 (dezimal) .... 1x

TARGET SYSTEM: CUSTOMER'S COMPUTER (MASTER)  
 Ziel: Bauseitiger Computer (Master)

FUNCTION CODE: 03 READ HOLDING REGISTERS (4xxxx references)  
 Funktionscode: 03 READ HOLDING REGISTERS (4xxxx references)

	MSB								LSB								
R128	<---	---	---	---	---	---	---	617	---	---	---	---	---	---	---	---	---
R129	<---	---	---	---	---	---	---	618	---	---	---	---	---	---	---	---	---
R130	<---	---	---	---	---	---	---	619	---	---	---	---	---	---	---	---	---
R131	<---	---	---	---	---	---	---	620	---	---	---	---	---	---	---	---	---
R132	<---	---	---	---	---	---	---	621	---	---	---	---	---	---	---	---	---
R133	<---	---	---	---	---	---	---	622	---	---	---	---	---	---	---	---	---
R134	<---	---	---	---	---	---	---	623	---	---	---	---	---	---	---	---	---
R135	<---	---	---	---	---	---	---	624	---	---	---	---	---	---	---	---	---
R136	<---	---	---	---	---	---	---	625	---	---	---	---	---	---	---	---	---
R137	<---	---	---	---	---	---	---	626	---	---	---	---	---	---	---	---	---
R138	<---	---	---	---	---	---	---	627	---	---	---	---	---	---	---	---	---
R139	<---	---	---	---	---	---	---	628	---	---	---	---	---	---	---	---	---
R140	<---	---	---	---	---	---	---	629	---	---	---	---	---	---	---	---	---
R141	<---	---	---	---	---	---	---	630	---	---	---	---	---	---	---	---	---
R142	<---	---	---	---	---	---	---	631	---	---	---	---	---	---	---	---	---
R143	<---	---	---	---	---	---	---	632	---	---	---	---	---	---	---	---	---
R144	<---	---	---	---	---	---	---	633	---	---	---	---	---	---	---	---	---
R145	<---	---	---	---	---	---	---	634	---	---	---	---	---	---	---	---	---
R146	<---	---	---	---	---	---	---	635	---	---	---	---	---	---	---	---	---
R147	<---	---	---	---	---	---	---	636	---	---	---	---	---	---	---	---	---
R148	<---	---	---	---	---	---	---	637	---	---	---	---	---	---	---	---	---
R149	<---	---	---	---	---	---	---	638	---	---	---	---	---	---	---	---	---
R150	<---	---	---	---	---	---	---	639	---	---	---	---	---	---	---	---	---
R151	<---	---	---	---	---	---	---	640	---	---	---	---	---	---	---	---	---
R152	<---	---	---	---	---	---	---	641	---	---	---	---	---	---	---	---	---
R153	<---	---	---	---	---	---	---	642	---	---	---	---	---	---	---	---	---
R154	<---	---	---	---	---	---	---	643	---	---	---	---	---	---	---	---	---
R155	<---	---	---	---	---	---	---	644	---	---	---	---	---	---	---	---	---
R156	<---	---	---	---	---	---	---	645	---	---	---	---	---	---	---	---	---
R157	<---	---	---	---	---	---	---	646	---	---	---	---	---	---	---	---	---
R158	<---	---	---	---	---	---	---	647	---	---	---	---	---	---	---	---	---
R159	<---	---	---	---	---	---	---	648	---	---	---	---	---	---	---	---	---



**SEND DATA Register-addresses R160 – R191 (decimal)**

**SENDEDATEN Register-Adressen R160 – R191 (dezimal)**

SOURCE: GE Jenbacher module control 1-x = SLAVE 11 (decimal) .... 1x  
 Quelle: GE Jenbacher Modulsteuerung 1-x = SLAVE 11 (dezimal) .... 1x

TARGET SYSTEM: CUSTOMER'S COMPUTER (MASTER)  
 Ziel: Bauseitiger Computer (Master)

FUNCTION CODE: 03 READ HOLDING REGISTERS (4xxxx references)  
 Funktionscode: 03 READ HOLDING REGISTERS (4xxxx references)

	MSB								LSB							
R160	<---	---	---	---	---	---	649	---	---	---	---	---	---	---	---	---
R161	<---	---	---	---	---	---	650	---	---	---	---	---	---	---	---	---
R162	<---	---	---	---	---	---	651	---	---	---	---	---	---	---	---	---
R163	<---	---	---	---	---	---	652	---	---	---	---	---	---	---	---	---
R164	<---	---	---	---	---	---	653	---	---	---	---	---	---	---	---	---
R165	<---	---	---	---	---	---	654	---	---	---	---	---	---	---	---	---
R166	<---	---	---	---	---	---	655	---	---	---	---	---	---	---	---	---
R167	<---	---	---	---	---	---	656	---	---	---	---	---	---	---	---	---
R168	<---	---	---	---	---	---	657	---	---	---	---	---	---	---	---	---
R169	<---	---	---	---	---	---	658	---	---	---	---	---	---	---	---	---
R170	<---	---	---	---	---	---	659	---	---	---	---	---	---	---	---	---
R171	<---	---	---	---	---	---	660	---	---	---	---	---	---	---	---	---
R172	<---	---	---	---	---	---	661	---	---	---	---	---	---	---	---	---
R173	<---	---	---	---	---	---	662	---	---	---	---	---	---	---	---	---
R174	<---	---	---	---	---	---	663	---	---	---	---	---	---	---	---	---
R175	<---	---	---	---	---	---	664	---	---	---	---	---	---	---	---	---
R176	<---	---	---	---	---	---	665	---	---	---	---	---	---	---	---	---
R177	<---	---	---	---	---	---	666	---	---	---	---	---	---	---	---	---
R178	<---	---	---	---	---	---	667	---	---	---	---	---	---	---	---	---
R179	<---	---	---	---	---	---	668	---	---	---	---	---	---	---	---	---
R180	<---	---	---	---	---	---	669	---	---	---	---	---	---	---	---	---
R181	<---	---	---	---	---	---	670	---	---	---	---	---	---	---	---	---
R182	<---	---	---	---	---	---	671	---	---	---	---	---	---	---	---	---
R183	<---	---	---	---	---	---	672	---	---	---	---	---	---	---	---	---
R184	<---	---	---	---	---	---	673	---	---	---	---	---	---	---	---	---
R185	<---	---	---	---	---	---	674	---	---	---	---	---	---	---	---	---
R186	<---	---	---	---	---	---	675	---	---	---	---	---	---	---	---	---
R187	<---	---	---	---	---	---	676	---	---	---	---	---	---	---	---	---
R188	<---	---	---	---	---	---	677	---	---	---	---	---	---	---	---	---
R189	<---	---	---	---	---	---	678	---	---	---	---	---	---	---	---	---
R190	<---	---	---	---	---	---	679	---	---	---	---	---	---	---	---	---
R191	<---	---	---	---	---	---	680	---	---	---	---	---	---	---	---	---

**END OF SEND DATA**

**ENDE SENDEDATEN**



**RECEIVE DATA Register-addresses R192 – R207 (decimal)**

**EMPFANGSDATEN Register-Adressen R192 – R207 (dezimal)**

SOURCE: CUSTOMER'S COMPUTER (MASTER)  
 Quelle: Bauseitiger Computer (Master)

TARGET SYSTEM: GE Jenbacher module control 1-x = SLAVE 11 (decimal) .... 1x  
 Ziel: GE Jenbacher Modulsteuerung 1-x = SLAVE 11 (dezimal) .... 1x

FUNCTION CODE: 16 PRESET MULTIPLE REGISTERS (4xxxx references)  
 Funktionscode: 16 PRESET MULTIPLE REGISTERS (4xxxx references)

	MSB								LSB						
								708	707	706	705	704	703	702	701
R192															
R193															
R194	<---	----	----	----	----	----	740	----	----	----	----	----	----	----	---
R195															
R196															
R197															
R198															
R199															
R200															
R201															
R202															
R203															
R204															
R205															
R206															
R207															

**END OF RECEIVE DATA**  
**ENDE EMPFANGSDATEN**



IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
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**SEND DATA ITEMS FOR MODULE**

**Sende-Datenpunkte Modul**

401 - 424	SPARE Reserve					
425	SERVICE SELECTOR SWITCH IN POSITION "OFF" Betriebswahlschalter "AUS"	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
426	SERVICE SELECTOR SWITCH IN POSITION "MANUAL" Betriebswahlschalter "HAND"	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 450 Betriebsmeldung Logik identisch mit Nr. 450		
427	SERVICE SELECTOR SWITCH IN POSITION "AUTOMATIC" Betriebswahlschalter "AUTOMATIK"	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 451 Betriebsmeldung Logik identisch mit Nr. 451		
428	SPARE Reserve					
429	GENERATOR CB CLOSED Generatorschalter geschlossen	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 446 Betriebsmeldung Logik identisch mit Nr. 446		
430	GENERATOR CB OPEN Generatorschalter offen	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
431	OPERATION ON Betrieb EIN	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 20,449 Betriebsmeldung Logik identisch mit Nr. 20,449		
432	OPERATION OFF Betrieb AUS	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
433	READY FOR AUTOMATIC DEMAND ON Bereit für Automatanforderung EIN	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 14,444 Betriebsmeldung Logik identisch mit Nr. 14,444		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
434	READY FOR AUTOMATIC DEMAND OFF Bereit für Automatkanforderung AUS	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
435	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 447 Betriebsmeldung Logik identisch mit Nr. 447		
436	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
437	TURBO CHARGE UNIT: GENERAL TRIP Turbo-Aufladeeinheit: Sammelstörung abstellend	GE Jenbacher	CUSTOMER Kunde	FAILURE MESSAGE (General failure message of the turbo charge unit: Message No. 2213, 2215-2226, 2233, 2234, 2236-2239, 2258, 2259) Fehlermeldung (Sammelfehlermeldung von der Turbo- Aufladeeinheit: Meldungs-Nr. 2213, 2215-2226, 2233, 2234, 2236-2239, 2258, 2259)		
438	TURBO CHARGE UNIT: GENERAL WARNING Turbo-Aufladeeinheit: Sammelstörung warnend	GE Jenbacher	CUSTOMER Kunde	FAILURE MESSAGE (General failure message of the turbo charge unit: Message No. 2514-2523, 2525-2533, 2539-2541, 2543, 2546-2551, 2554, 2563-2566, 2611, 2612) Fehlermeldung (Sammelfehlermeldung von der Turbo- Aufladeeinheit: Meldungs-Nr. 2514-2523, 2525-2533, 2539-2541, 2543, 2546-2551, 2554, 2563-2566, 2611, 2612)		
439	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	FAILURE MESSAGE (General failure message of SAFI/MORIS: from Message No. 3330 to No. 3345) Fehlermeldung (Sammelfehlermeldung von SAFI/MORIS: von Meldungs-Nr. 3330 bis Nr. 3345)		
440	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	FAILURE MESSAGE (General failure message of SAFI/MORIS: from Message No. 3530 to No. 3552) Fehlermeldung (Sammelfehlermeldung von SAFI/MORIS: von Meldungs-Nr. 3530 bis Nr. 3552)		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
441	SYNCHRONIZING GENERATOR ACTIVATED Synchronisierung Generator angewählt	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
442	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
443	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
444	READY FOR AUTOMATIC DEMAND Bereit für Automatanforderung	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 14,433 Betriebsmeldung Logik identisch mit Nr. 14,433		
445	DEMAND FOR AUXILIARIES Anforderung Hilfsbetriebe	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 18 Betriebsmeldung Logik identisch mit Nr. 18		
446	GENERATOR CB CLOSED Generatorschalter geschlossen	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 429 Betriebsmeldung Logik identisch mit Nr. 429		
447	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 435 Betriebsmeldung Logik identisch mit Nr. 435		
448	MODULE IS DEMANDED Modul ist angefordert	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 17 Betriebsmeldung Logik identisch mit Nr. 17		
449	OPERATION   ENGINE IS RUNNING Betrieb   Motor läuft	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 20,431 Betriebsmeldung Logik identisch mit Nr. 20,431		
450	SERVICE SELECTOR SWITCH IN POSITION "MANUAL" Betriebswahlschalter "HAND"	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 426 Betriebsmeldung Logik identisch mit Nr. 426		





## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
451	SERVICE SELECTOR SWITCH IN POSITION "AUTOMATIC" Betriebswahlschalter "AUTOMATIK"	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE IDENTICAL LOGIC WITH No. 427 Betriebsmeldung Logik identisch mit Nr. 427		
452	GENERAL TRIP Sammelstörung abstellend	GE Jenbacher	CUSTOMER Kunde	FAILURE MESSAGE IDENTICAL LOGIC WITH No. 21 Fehlermeldung Logik identisch mit Nr. 21		
453	GENERAL WARNING Sammelstörung warnend	GE Jenbacher	CUSTOMER Kunde	FAILURE MESSAGE IDENTICAL LOGIC WITH No. 22 Fehlermeldung Logik identisch mit Nr. 22		
454	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
455	PULSE FOR OPERATION HOURS COUNTER Betriebsstundenzähler-Impuls	GE Jenbacher	CUSTOMER Kunde	COUNTING PULSE   ON-TIME = 10" Zählimpuls   Impulsdauer = 10"		
456	PULSE FOR START COUNTER Startzähler-Impuls	GE Jenbacher	CUSTOMER Kunde	COUNTING PULSE ON-TIME   OFF-TIME > 10" Zählimpuls Impulsdauer   Pausendauer > 10"		
457 - 500	SPARE Reserve					
501	JACKET WATER TEMPERATURE Kühlwassertemperatur M.04-TI-001	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)		
502	JACKET WATER PRESSURE Kühlwasserdruck M.04-PI-001	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,01 bar) Messwert 16 BIT INTEGER (1 UNIT = 0,01 bar)		
503	ENGINE OIL TEMPERATURE Öltemperatur M.03-TI-001	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
504	ENGINE OIL PRESSURE Öldruck <b>M.03-PI-001</b>	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,01 bar) Messwert 16 BIT INTEGER (1 UNIT = 0,01 bar)		
505	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)		
506	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)		
507	SPARE Reserve					
508	CYLINDER EXHAUST GAS TEMPERATURE AVERAGE VALUE Mittelwert Abgastemperatur Zylinder <b>E.02-TI-001[xx]</b>	GE Jenbacher	CUSTOMER Kunde	CALCULATED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Rechenwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
509	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)		
510	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)		
511	GENERATOR POWER FACTOR Generator-cosphi	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER INT 16 ( -999 ... -1 / 0 ... +1000 = cosphi -0,999 ... -0,001 [cap.] / 0 ... +1,0 [ind.] ) Messwert 16 BIT INTEGER INT 16 ( -999 ... -1 / 0 ... +1000 = cosphi -0,999 ... -0,001 [kap.] / 0 ... +1,0 [ind.] )		
512	GENERATOR FREQUENCY Generator-Frequenz	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 Hz) Messwert 16 BIT INTEGER (1 UNIT = 0,1 Hz)		
513	GENERATOR CURRENT AVERAGE VALUE Mittelwert Generatorstrom	GE Jenbacher	CUSTOMER Kunde	CALCULATED VALUE 16 BIT INTEGER (1 UNIT = 1,0A) Rechenwert 16 BIT INTEGER (1 UNIT = 1,0 A)		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
514	GENERATOR VOLTAGE AVERAGE VALUE (PHASE TO PHASE) Mittelwert verkettete Generatorspannung	GE Jenbacher	CUSTOMER Kunde	CALCULATED VALUE 16 BIT INTEGER (1 UNIT = 1,0 V) Rechenwert 16 BIT INTEGER (1 UNIT = 1,0 V)		
515	SPARE Reserve					
516	EXHAUST GAS TEMPERATURE CYLINDER 1 Abgastemperatur Zylinder 1 E.02-TI-001[01]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
517	EXHAUST GAS TEMPERATURE CYLINDER 2 Abgastemperatur Zylinder 2 E.02-TI-001[02]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
518	EXHAUST GAS TEMPERATURE CYLINDER 3 Abgastemperatur Zylinder 3 E.02-TI-001[03]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
519	EXHAUST GAS TEMPERATURE CYLINDER 4 Abgastemperatur Zylinder 4 E.02-TI-001[04]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
520	EXHAUST GAS TEMPERATURE CYLINDER 5 Abgastemperatur Zylinder 5 E.02-TI-001[05]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
521	EXHAUST GAS TEMPERATURE CYLINDER 6 Abgastemperatur Zylinder 6 E.02-TI-001[06]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
522	EXHAUST GAS TEMPERATURE CYLINDER 7 Abgastemperatur Zylinder 7 E.02-TI-001[07]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
523	EXHAUST GAS TEMPERATURE CYLINDER 8 Abgastemperatur Zylinder 8 E.02-TI-001[08]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
524	EXHAUST GAS TEMPERATURE CYLINDER 9 Abgastemperatur Zylinder 9 E.02-TI-001[09]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
525	EXHAUST GAS TEMPERATURE CYLINDER 10 <i>Abgastemperatur Zylinder 10</i> <b>E.02-TI-001[10]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
526	EXHAUST GAS TEMPERATURE CYLINDER 11 <i>Abgastemperatur Zylinder 11</i> <b>E.02-TI-001[11]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
527	EXHAUST GAS TEMPERATURE CYLINDER 12 <i>Abgastemperatur Zylinder 12</i> <b>E.02-TI-001[12]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
528	EXHAUST GAS TEMPERATURE CYLINDER 13 <i>Abgastemperatur Zylinder 13</i> <b>E.02-TI-001[13]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
529	EXHAUST GAS TEMPERATURE CYLINDER 14 <i>Abgastemperatur Zylinder 14</i> <b>E.02-TI-001[14]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
530	EXHAUST GAS TEMPERATURE CYLINDER 15 <i>Abgastemperatur Zylinder 15</i> <b>E.02-TI-001[15]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
531	EXHAUST GAS TEMPERATURE CYLINDER 16 <i>Abgastemperatur Zylinder 16</i> <b>E.02-TI-001[16]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
532	EXHAUST GAS TEMPERATURE CYLINDER 17 <i>Abgastemperatur Zylinder 17</i> <b>E.02-TI-001[17]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
533	EXHAUST GAS TEMPERATURE CYLINDER 18 <i>Abgastemperatur Zylinder 18</i> <b>E.02-TI-001[18]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		
534	EXHAUST GAS TEMPERATURE CYLINDER 19 <i>Abgastemperatur Zylinder 19</i> <b>E.02-TI-001[19]</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</i>		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
535	EXHAUST GAS TEMPERATURE CYLINDER 20 Abgastemperatur Zylinder 20 E.02-TI-001[20]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)		
536	TOTAL ACTIVE OUTPUT Wirkarbeit (HIGH-WORD)	GE Jenbacher	CUSTOMER Kunde	COUNTER READING 32 BIT INTEGER (1 UNIT = 0,1 MWh) Zählerwert 32 BIT INTEGER (1 UNIT = 0,1 MWh)		
537	TOTAL ACTIVE OUTPUT Wirkarbeit (LOW-WORD)	GE Jenbacher	CUSTOMER Kunde	SEE No. 536! Siehe Nr. 536!		
538	TOTAL REACTIVE OUTPUT Blindarbeit (HIGH-WORD)	GE Jenbacher	CUSTOMER Kunde	COUNTER READING 32 BIT INTEGER (1 UNIT = 0,1 Mvarh) Zählerwert 32 BIT INTEGER (1 UNIT = 0,1 Mvarh)		
539	TOTAL REACTIVE OUTPUT Blindarbeit (LOW-WORD)	GE Jenbacher	CUSTOMER Kunde	SEE No. 538! Siehe Nr. 538!		
540	SETPOINT POWER CONTROL Sollwert Leistungsregler	GE Jenbacher	CUSTOMER Kunde	CALCULATED VALUE 16 BIT INTEGER (1 UNIT = 1,0 kW) Rechenwert 16 BIT INTEGER (1 UNIT = 1,0 kW)		
541	OPERATION HOURS COUNTER Betriebsstundenzähler (HIGH-WORD)	GE Jenbacher	CUSTOMER Kunde	COUNTER READING 32 BIT INTEGER (1 UNIT = 1 HOUR) Zählerwert 32 BIT INTEGER (1 UNIT = 1 HOUR)		
542	OPERATION HOURS COUNTER Betriebsstundenzähler (LOW-WORD)	GE Jenbacher	CUSTOMER Kunde	SEE No. 541! Siehe Nr. 541!		
543	START COUNTER Startzähler (HIGH-WORD)	GE Jenbacher	CUSTOMER Kunde	COUNTER READING (1 UNIT = 1 START) Zählerwert 32 BIT INTEGER (1 UNIT = 1 START)		
544	START COUNTER Startzähler (LOW-WORD)	GE Jenbacher	CUSTOMER Kunde	SEE No. 543! Siehe Nr. 543!		
545	SPARE Reserve					
546	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
547	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
548	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
549	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
550	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
551	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
552	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
553	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
554	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
555	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
556	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
557	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
558	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
559	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
560	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		
561	SPARE Reserve	GE Jenbacher	CUSTOMER Kunde	OPERATION MESSAGE Betriebsmeldung		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
562 - 599	SPARE <a href="#">Reserve</a>					
600	CLOCK PULSE 10" = alle ALL 8 Bit "1" 10" = alle ALL 8 Bit "0" <a href="#">Taktsignal</a> 10" = alle ALL 8 Bit "1" 10" = alle ALL 8 Bit "0"	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	OPERATION MESSAGE <a href="#">Betriebsmeldung</a>		
601	CHARGE TEMPERATURE (FUEL MIXTURE TEMPERATURE) <a href="#">Ladetemperatur (Gemischtemperatur)</a> <b>E.08-TI-001</b>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)</a>		
602	SPARE <a href="#">Reserve</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)</a>		
603	SPARE <a href="#">Reserve</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)</a>		
604	SPARE <a href="#">Reserve</a>					
605	EXCITATION VOLTAGE <a href="#">Erregerspannung</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 V) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 0,1 V)</a>		
606	GENERATOR WINDING TEMPERATURE L1 <a href="#">Generatorwicklungstemperatur L1</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)</a>		
607	GENERATOR WINDING TEMPERATURE L2 <a href="#">Generatorwicklungstemperatur L2</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)</a>		
608	GENERATOR WINDING TEMPERATURE L3 <a href="#">Generatorwicklungstemperatur L3</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)</a>		
609	GENERATOR BEARING DRIVE END "DE" <a href="#">Generatorlagertemperatur Antriebsseite "DE"</a> <b>G.00-TI-030[01]</b>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)</a>		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
610	GENERATOR BEARING NON-DRIVE END "NDE" Generatorlagertemperatur Nichtantriebsseite "NDE" G.00-TI-030[02]	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 °C) Messwert 16 BIT INTEGER (1 UNIT = 0,1 °C)		
611	SPEED Drehzahl E.00-SI-001	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1 r.p.m.) Messwert 16 bit integer (1 UNIT = 1 r.p.m.)		
612	GENERATOR VOLTAGE L1-N Generatorspannung L1-N	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 V) Messwert 16 BIT INTEGER (1 UNIT = 1,0 V)		
613	GENERATOR VOLTAGE L2-N Generatorspannung L2-N	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 V) Messwert 16 BIT INTEGER (1 UNIT = 1,0 V)		
614	GENERATOR VOLTAGE L3-N Generatorspannung L3-N	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 V) Messwert 16 BIT INTEGER (1 UNIT = 1,0 V)		
615	GENERATOR VOLTAGE L1-L2 Generatorspannung L1-L2	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 V) Messwert 16 BIT INTEGER (1 UNIT = 1,0 V)		
616	GENERATOR VOLTAGE L2-L3 Generatorspannung L2-L3	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 V) Messwert 16 BIT INTEGER (1 UNIT = 1,0 V)		
617	GENERATOR VOLTAGE L3-L1 Generatorspannung L3-L1	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 V) Messwert 16 BIT INTEGER (1 UNIT = 1,0 V)		
618	GENERATOR POWER Generatorwirkleistung	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 kW) Messwert 16 BIT INTEGER (1 UNIT = 1,0 kW)		
619	GENERATOR REACTIVE POWER Generatorblindleistung	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 kvar) Messwert 16 BIT INTEGER (1 UNIT = 1,0 kvar)		
620	GENERATOR APPARENT POWER Generatorscheinleistung	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 kVA) Messwert 16 BIT INTEGER (1 UNIT = 1,0 kVA)		





## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
621	GENERATOR CURRENT L1 <i>Generatorstrom L1</i>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 A) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 A)</i>		
622	GENERATOR CURRENT L2 <i>Generatorstrom L2</i>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 A) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 A)</i>		
623	GENERATOR CURRENT L3 <i>Generatorstrom L3</i>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 A) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 A)</i>		
624	GENERATOR NEUTRAL CURRENT <i>Generator-Nullleiterstrom</i>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 A) <i>Messwert 16 BIT INTEGER (1 UNIT = 1,0 A)</i>		
625	BOOST PRESSURE ACTUAL VALUE <i>Ladedruck Istwert</i> <b>E.08-PI-001</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,01 bar) <i>Messwert 16 BIT INTEGER (1 UNIT = 0,01 bar)</i>		
626	GASMIXER POSITION <i>Gasmischerposition</i> <b>E.01-M-001</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 %) <i>Messwert 16 BIT INTEGER (1 UNIT = 0,1 %)</i>		
627	THROTTLE VALVE POSITION <i>Drosselklappenposition</i> <b>E.08-M-001</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 %) <i>Messwert 16 BIT INTEGER (1 UNIT = 0,1 %)</i>		
628	TURBOCHARGER BYPASS POSITION <i>Turbobypassposition</i> <b>E.08-YCI-101</b>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 0,1 %) <i>Messwert 16 BIT INTEGER (1 UNIT = 0,1 %)</i>		
629 - 630	SPARE <i>Reserve</i>					
631	SPARE <i>Reserve</i>	GE Jenbacher	CUSTOMER <i>Kunde</i>	MEASURED VALUE 16 BIT INTEGER INT 16 (1000 ... 2000 = Lambda 1,000 ... 2,000 ) <i>Messwert 16 bit integer</i> INT 16 ( 1000 ... 2000 = Lambda 1,000 ... 2,000 )		
632	SPARE <i>Reserve</i>					



IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
633	RESERVE ANALOGUE VALUE 1 Reserveanalogwert 1	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
634	RESERVE ANALOGUE VALUE 2 Reserveanalogwert 2	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
635	RESERVE ANALOGUE VALUE 3 Reserveanalogwert 3	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
636	RESERVE ANALOGUE VALUE 4 Reserveanalogwert 4	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
637	RESERVE ANALOGUE VALUE 5 Reserveanalogwert 5	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
638	RESERVE ANALOGUE VALUE 6 Reserveanalogwert 6	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
639	RESERVE ANALOGUE VALUE 7 Reserveanalogwert 7	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
640	RESERVE ANALOGUE VALUE 8 Reserveanalogwert 8	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
641	RESERVE ANALOGUE VALUE 9 Reserveanalogwert 9	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
642	RESERVE ANALOGUE VALUE 10 Reserveanalogwert 10	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		
643	RESERVE ANALOGUE VALUE 11 Reserveanalogwert 11	GE Jenbacher	CUSTOMER Kunde	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) Messwert 16 bit integer (1 unit = ...)		



## Interfacelist | Schnittstellenliste

IFLno SSLNr	DESIGNATION BENENNUNG	FROM VON	TO ZU	COMMENT BEMERKUNG	WIRES	INDEX
644	RESERVE ANALOGUE VALUE 12 <a href="#">Reserveanalogwert 12</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) <a href="#">Messwert 16 bit integer (1 unit = ...)</a>		
645	RESERVE ANALOGUE VALUE 13 <a href="#">Reserveanalogwert 13</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) <a href="#">Messwert 16 bit integer (1 unit = ...)</a>		
646	RESERVE ANALOGUE VALUE 14 <a href="#">Reserveanalogwert 14</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) <a href="#">Messwert 16 bit integer (1 unit = ...)</a>		
647	RESERVE ANALOGUE VALUE 15 <a href="#">Reserveanalogwert 15</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) <a href="#">Messwert 16 bit integer (1 unit = ...)</a>		
648	RESERVE ANALOGUE VALUE 16 <a href="#">Reserveanalogwert 16</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = ...) <a href="#">Messwert 16 bit integer (1 unit = ...)</a>		
649 - 672	SPARE <a href="#">Reserve</a>					
673	SPARE <a href="#">Reserve</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</a>		
674	SPARE <a href="#">Reserve</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</a>		
675	SPARE <a href="#">Reserve</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</a>		
676	SPARE <a href="#">Reserve</a>	GE Jenbacher	CUSTOMER <a href="#">Kunde</a>	MEASURED VALUE 16 BIT INTEGER (1 UNIT = 1,0 °C) <a href="#">Messwert 16 BIT INTEGER (1 UNIT = 1,0 °C)</a>		
677 - 680	SPARE <a href="#">Reserve</a>					



IFLno	DESIGNATION	FROM	TO	COMMENT	WIRES	INDEX
SSLNr	BENENNUNG	VON	ZU	BEMERKUNG		

**RECEIVE DATA ITEMS FOR MODULE** Alternatively in place of the signals IFLno 15 + 28

**Empfangs-Datenpunkte Modul** Alternative an Stelle von den Signalen SSLNr 15 + 28

701	SPARE Reserve	CUSTOMER Kunde	GE Jenbacher	0 = NO DEMAND 1 = DEMAND 0 = keine Anforderung 1 = Anforderung		
702	SPARE Reserve					
703	SPARE Reserve					
704	SPARE Reserve					
705	SPARE Reserve					
706	SPARE Reserve					
707	SPARE Reserve					
708	SPARE Reserve	CUSTOMER Kunde	GE Jenbacher	FOR RELEASE INTERFACE No. 701 ! Für Freigabe Schnittstelle Nr. 701 !		
709 - 739	SPARE Reserve					
740	SPARE Reserve	CUSTOMER Kunde	GE Jenbacher	INT 16 (+500.....+1000 = 50-100% PN)		