

Connecting diagram

LP Flow Computer GDR 1404

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Installation instructions

Thank you for your understanding, that we do not enclose an installation-CD to every device for environmental reasons. You have the opportunity to download all relevant information and software products from our homepage (www.esters.de).

For starting up the devices, the following points of the check list have to be complied:

Notebook/PC

Mini-USB cable

A Mini-USB cable is required for configuration.

Configuration software Esters Energy Efficiency and Device Manager (E3DM)

Download and installation of the latest version of the configuration software E3DM under Download >> Software (www.esters.de/en/download/sw000.shtml).

Please check if your notebook / PC meets the system requirements for the installation and follow the instructions under Download >> Software (www.esters.de/en/download/sw000.shtml).

Instruction manual configuration software

Download of the installation manual of the configuration software E3DM under Download >> Instruction manual A-Z (www.esters.de/en/download/mi001.shtml).

Device specific installation instruction

Download of the device-specific installation manual under Download >> Instruction manual A-Z (www.esters.de/en/download/mi001.shtml).

The designation of the device series is defined on the type identification label.

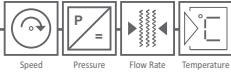


Table: device codes

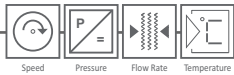
Code table GDR 1404

ESTERS ELEKTRONIK
 Type : GDR1404-0049-0000
 Serial : 1108 A 1234
 Max. amb. Temp. : 55 °C
 Input rated Voltage : 24 V/DC ---
 Tolerance : ± 3 V/DC
 Input rated Current : 1,25 A max.
 Power : 30 VA max.
 Max. Input Interface : 30 V/DC respect to \perp
 Protection class : IP20
 FOR USE IN POLLUTION DEGREE 2 ENVIROMENT

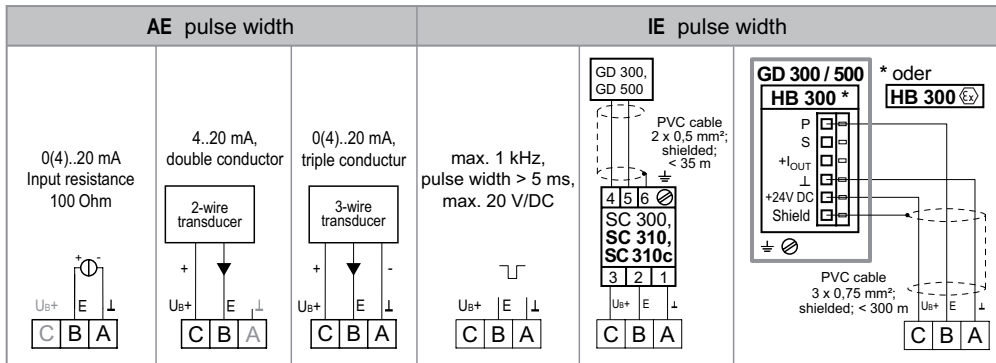
CE Example

Port Code	Temperature / Flow / Pressure / Hydros. pressure / Measurement input / Measurement input / Measurement input / Measurement input / Nm³/h / Nm³ / Start / Stop / Release / Nm³ / Multifunction															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0001	AE	AE	AE	AE											RS	RS
0009	AE	AE	AE	AE					AA						RS	RS
001D	AE	AE	AE	AE					AA	AA	DEA	DEA			RS	RS
0029 ²⁾	AE	AE	AE	AE					AA						RS	RS
0041	AE	IE	AE	AE											RS	RS
0049	AE	IE	AE	AE					AA						RS	RS
005D	AE	IE	AE	AE					AA	AA	DEA	DEA			RS	RS
0069 ²⁾	AE	IE	AE	AE					AA						RS	RS
0201	AE ¹⁾	AE													RS	RS
0209	AE ¹⁾	AE							AA						RS	RS
0241	AE ¹⁾	IE													RS	RS
0249	AE ¹⁾	IE							AA						RS	RS
0809	AE	AE	AE	AE	AE	AE			AA						RS	RS
0829 ²⁾	AE	AE	AE	AE	AE	AE			AA						RS	RS
0849	AE	IE	AE	AE	AE	AE			AA						RS	RS
084D	AE	IE	AE	AE	AE	AE			AA		DEA				RS	RS
0869 ²⁾	AE	IE	AE	AE	AE	AE			AA						RS	RS
086D ²⁾	AE	IE	AE	AE	AE	AE			AA		DEA				RS	RS
1809	AE	AE	AE	AE	AE	AE	AE	AE	AA						RS	RS
1829 ²⁾	AE	AE	AE	AE	AE	AE	AE	AE	AA						RS	RS
1849	AE	IE	AE	AE	AE	AE	AE	AE	AA						RS	RS
184D	AE	IE	AE	AE	AE	AE	AE	AE	AA		DEA				RS	RS
1869 ²⁾	AE	IE	AE	AE	AE	AE	AE	AE	AA						RS	RS
186D ²⁾	AE	IE	AE	AE	AE	AE	AE	AE	AA		DEA				RS	RS

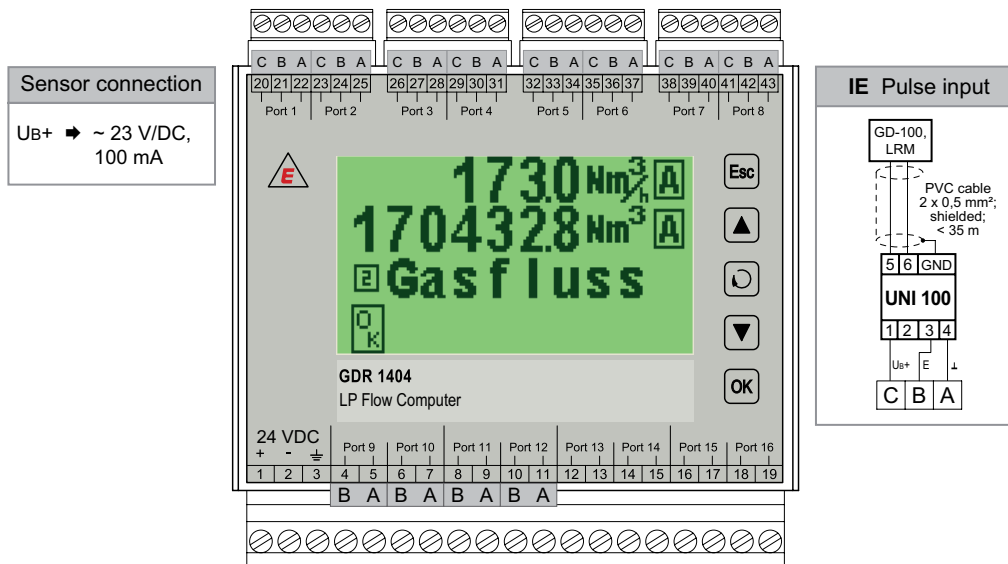
1) Either temperature or pressure
2) Gas analysis



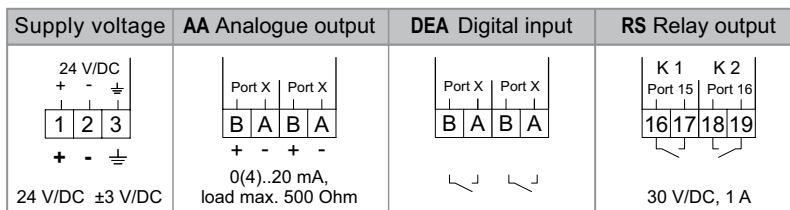
Connecting diagram



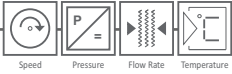
Wiring recommendation: preferably 0,5 mm², max. 0,75 mm²



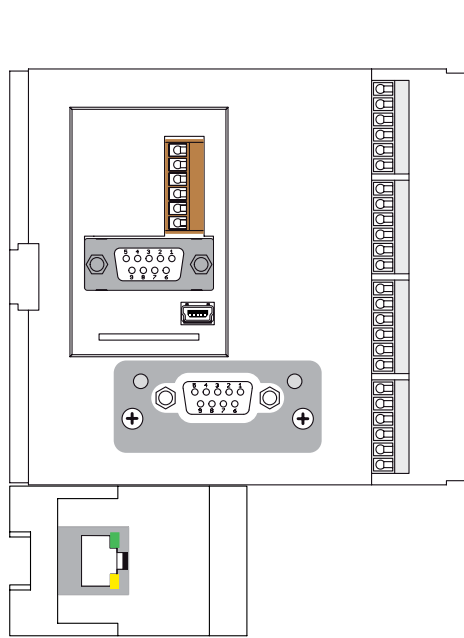
Wiring recommendation: preferably 1 mm², max. 1,5 mm²



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Communication interfaces



ESTERS ELEKTRONIK

Type : XXXXXX-XXX-0015
 Part No. : 1234
 Max. Amb. Temp. : 55 °C
 Input rated Voltage : 24 VDC ±5%
 Tolerance : ± 3 VDC
 Input rated Current : 1.25 A max.
 Power : 30 W max.
 Max. Input Interface : 30 VDC respect to GND
 Protection class : IP20
FOR USE IN POLLUTION DEGREE 2 ENVIRONMENT

CE

Code	CAN Bus	Ethernet	Profibus DP-V1	Profibus RTU	Modbus TCP
00					
01	•				
04		•			
05	•	•			
08		•			
09		•			
0C	•	•			
0D	•	•			
0E					
10			•		
20				•	
30					•
40					•

Interface	Pin	Signal	
USB interface Onboard diagnostic and parameterisation	2	TxD (GDR 14xx Input)	
	3	RxD (GDR 14xx Output)	
	4	DTR	
	5	GND	
	7	RTS	
	Ethernet RJ45 LAN		
	1	TD+	
2	TD-		
3	RD+		
6	RD-		
CAN-Bus Interface			
CAN 1		Signal	
1	4	HI	
2	5	LO	
3	6	GND	
PROFIBUS-DP-V1			
Signal		Signal	
3	B Line		
4	RTS		
5	GND		
8	A Line		
MRTU Modbus-RTU RS-232		Signal	
1	GND		
2	external bridge		
7	Rx		
8	Tx		
RS-485		Signal	
1	GND		
5	B Line		
9	A Line		
ProfNet			
Modbus-TCP			

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