

Connecting diagram

Flow Computer GDR 1501 (E8166a,b)

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Installation instructions

Please check the board version of the connection board and select the connection diagram accordingly. This document is valid for version E8166a,b.

Many thanks for your understanding, that we do not enclose a full installation manual to each device for environmental reasons. You have the opportunity to download all relevant information from our homepage (www.esters.de).

To start-up the devices, no additional software is required, the device can be completely set up over the display and the keypad.

Download



Device specific connecting diagram

Download of the device specific installation manual under
Download >> Instruction manual A-Z
(www.esters.de/en/download/td001.shtml).

The designation of the device is defined on the nameplate.

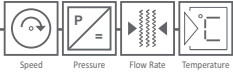


Device specific installation instruction

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 is defined on the nameplate.



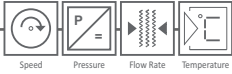


Device code: GDR 1501

	BASIC	ECO	PRO
GDR 1501-XXXX-YY00	0000	0048	0049
INPUT			
1: Flow rate: input for platinum wire sensor (GD 300/GD 500) (only NON-ATEX) <u>or</u>	•	•	•
1: Flow rate: impulse input for HB 300-R000000 (GD 300/GD 500), HB 300 Ex-R000000 (GD 300 Ex/GD 500 Ex) <u>or</u>	•	•	•
1: Flow rate: Third party devices with Open-Collector, Reed relay, input frequency up to 1 kHz	•	•	•
2: Temperature: 4 - 20 mA, 2 wire = -100 - 999 °C (12 bit) <u>or</u>		✓	•
2: Temperature (Pt100): 3 wire (12 bit)		✓	•
3: Pressure: 4 - 20 mA, 2 wire = 0 - 1000 bar (12 bit)		✓	•
OUTPUT			
1: 4 - 20 mA = 0 - (x) Bm ³ /h, l/h, Bm ³ /min, l/min (only Eco and Pro: Nm ³ /h, NL/h, Nm ³ /min, NL/min) flow rate (freely programmable), input resistance 500 Ohm	•	•	•
RELAY OUTPUT			
K1: Relay (NO) freely programmable - pulse output (0,1, 1 or 10 or 100 m ³ per impulse, freely programmable), counter output quantity <u>or</u> - limit value <u>or</u> - device status	•	•	•
K2: Relay (NO) freely programmable - pulse output (0,1, 1 or 10 or 100 m ³ per impulse, freely programmable), counter output quantity <u>or</u> - limit value <u>or</u> - device status	•	•	•

GDR 1501-xxxx-YY00	Y	Y	
	0		Housing made of polycarbonate for wall mounting dimensions: 151 mm (W) x 125 mm (H) x 60 mm (D)
	1		Housing made of polycarbonate for wall mounting (standard) dimensions: 151 mm (W) x 125 mm (H) x 91 mm (D)
	2		Housing made of aluminum for wall mounting dimensions: 159 mm (W) x 128 mm (H) x 91 mm (D)
		0	24 V, DC ± 3 V max. 200 mA (standard)
		1	- 100 - 240 V, AC 144 mA max. 50/60 Hz <u>or</u> - 24 V, DC ± 3 V, max. 200 mA (ATTENTION: Only connect one kind of power supply!)

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Connecting diagram and terminal allocation

TERMINAL	No.	
PLATINUM WIRE SENSOR: #1	1	
	2	
HB 300-R000000/ HB 300 Ex-R000000/ THIRD PARTY DEVICE #1	5	GND
	6	Signal
	7	+24 V
RELAY: K2 (NO)	28	
	29	
RELAY: K1 (NO)	30	
	31	

TERMINAL	No.	
OUTPUT: mA	32	GND
	33	+
TEMPERATURE (T): pt100	34	GND
	35	U1
	36	U2
PRESSURE (P): mA	37	+
	38	GND
TEMPERATURE (T): mA	39	GND
	40	+

POWER SUPPLY		
POWER SUPPLY: 24 V, DC	11	GND
	12	24 V DC
POWER SUPPLY: 100 - 240 V, AC (OPTIONAL)	27	L
	26	N
	25	PE

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