

Product information

**Quantity-Meter
M9648**



- Integration of analog input signals 0/4..20 mA and 0/2..10 V DC
- LED-Display 14.2 mm red
- Display range -99999..999999 Digit
- Quantity value zero-voltage protected
- Display refreshing 4/s
- 2 measuring inputs for sum or differential measurement
- Programmable measuring constant
- Max. 4 alarm outputs, relay SPDT or transistor
- Isolated analog output 0/4..20 mA or 0/2..10 V DC, burden dependent
- Front protection IP65

Characteristics

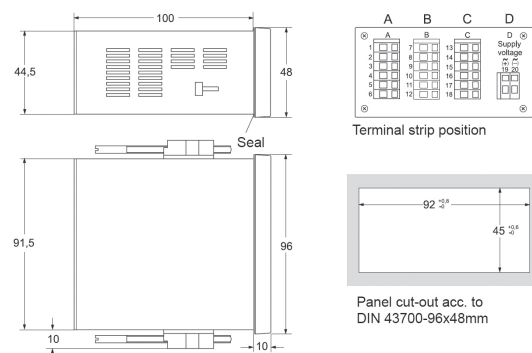
The Quantity-Meter M9648 has been designed to measure quantities in connection with analog input signals (industry standard signals).

Applications for example are measurement of total flow quantity (l,m³) or electric energy (kWh, MWh). The device can be adapted to a wide range of applications by programmable parameters.

Technical data

Power supply	
Supply voltage	: 230 V AC ±10 %; 115 V AC ±10 %, 24 V AC ±10 % or 24 V DC ±15 %
Power consumption	: max. 3.5 VA, with annlog output 5 VA
Operating temperature	: -10..+55 °C
Rated voltage	: 250 V~ acc. to VDE 0110 between input / output / supply voltage degree of pollution 2, over-voltage categoric III
Test voltage	: 4 kV=, between input / output / supply voltage
CE-conformity	: EN 61326-1:2013; EN 60664-1:2007
Input	
Current input	: Ri = 10 Ω over-load 2-times; 4-times max. 5 s
Voltage input	: Ri = 100 kΩ over-load max. 100 V
Reset input	: Ri = 5 kΩ max. 30 V DC, level U _s ≤ 3 V low U _s ≥ 10 V high
Accuracy	: 0.15 %
Temperature coefficient	: 0.005 %/K
Transmitter-supply	: U ₀ ca. 24 V, Ri ca. 150 Ω, max. 50 mA (with 4 relay outputs max. 25 mA)
Display	: LED red, 14,2 mm
Display range	: -99999..999999 Digit with leading zero suppression
Parameter display	: LED 2-digit red, 7 mm (parameter and output indicator)
Output	
Relay	: changeover contact < 250 V AC < 250 VA < 2 A, < 300 V DC < 50 W < 2 A
Transistor	: max. 35 V AC/DC max. 100 mA, with short circuit ptection
Analog	: 0/4..20 mA burden ≤500 Ω; 0/2..10 V burden >500 Ω, isolated automatic output changing (burden dependent)
Accuracy	: 0.1 %; TK 0,01 %/K
Housing	
Material	: PA6-GF; UL94V-0, Frontfolie Polyester
Dimensions	: see above
Weight	: max. 390 g
Electrical connection	: clamp terminals, 2 mm ² single wire, 1.5 mm ² flexible wire, AWG14
Protection	: front IP65, terminals IP20, fingersafe acc. to German BGV A3

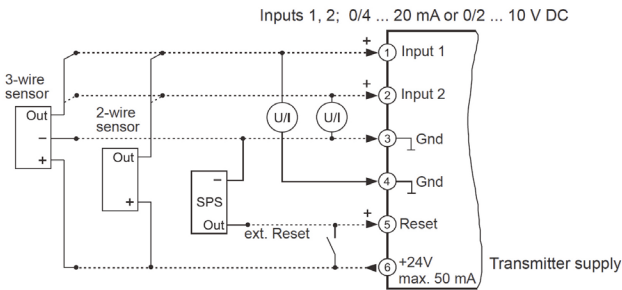
Dimensions



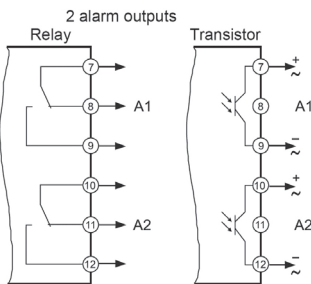
Product information

Connection diagram

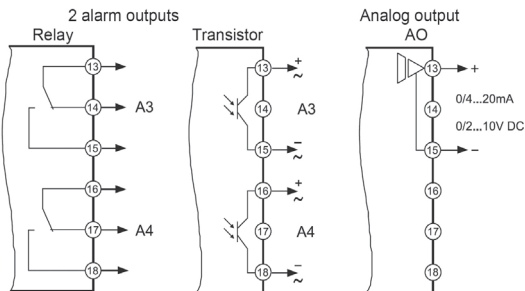
Terminal strip A



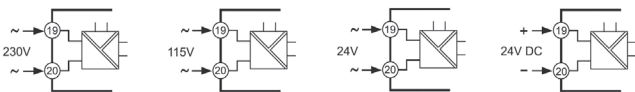
Terminal strip B (varies with version)



Terminal strip C (varies with version)



Terminal strip D supply voltage (varies with version)



Ordering code

M9648 - 1. - 2. - 3. - 4. - 5. - 6. - 7.

1. Terminal strip A	
1	2 inputs 0/4..20mA
2	2 inputs 0/2..10 V DC
2. Terminal strip B	
00	nicht bestückt
2R	2 alarm outputs relay
2T	2 alarm outputs transistor
3. Terminal strip C	
00	not installed
2R	2 alarm outputs relay
2T	2 alarm outputs transistor
AO	Analog output 0/4..20 mA, 0/2..10 V
4. Terminal strip D; supply voltage	
0	230 V AC ±10 % 50-60Hz
1	115 V AC ±10 % 50-60Hz
4	24 V AC ±10 % 50-60Hz
5	24 V DC ±15 %
5. Option	
00	Without option
6. Unit (on the panel front)	
7. Additional text (on the additional text field on the panelmeter, maximum 3 x 90 mm W x H)	

Factory configuration according to customer specifications!