Process display

Kübler

Your benefit
- Programmable input characteristic curve with up to 24 control points
- Display-Hold
- Very big keys for use with gloves
- very bright display
- Input range
  0 ... 20 mA, 4 ... 20 mA; 0 ...10 V
  2 ... 10 V; ±10 V

More advantages
- Auxiliary power supply output for measuring transducer/sensor
- optional serial interface

Now available with serial interface and set-up software EzControl!

Technical data

Miscellaneous Data

Display	5 digit red LED 14.2 mm high
Display range	−19999 ... 99999, with leading zeros suppression
Out of Range Indication	Under-range uuuuu / Over-range ooooo
Data storage	EEPROM, 1 Million storage cycles or 10 Years
Test voltages	EN 61010 Part 1 ; overvoltage category 2, level 2
EMC	Interference emissions EN 50081-2 / EN 55011 Class B
Interference resistance	EN 61000-6-2
AC power supply	90 ... 260 V AC/max. 6 VA external fuse 100 mA/T
DC power supply	10 ... 30 V DC, max. 2 W, galvanically isolated with inverse polarity protection external fuse 250 mA/T
Mains Hum Filter	digital filter 50 Hz or 60 Hz, programmable

Measurement ranges

Current input (DC)	Ranges 0 ... 20 mA, 4 ... 20 mA
Resolution	2 µA
Voltage drop	max. 2 V bei 20 mA
Max. current	50 mA
Voltage input(DC)	Ranges 0 ... 10 V, 2 ... 10 V, ±10 V
Resolution	1 mV
Input resitance	> 2 MΩ
Max. voltage	± 30 V
Measuring speed	approx. 2 measurements/s
Linearity	< 0,1% ±1 Digit for the whole measuring range at an ambient temperature of 20°C
Zero calibration	automatic
Temperature drift	100 ppm/K

Weight	approx. 220 g
Protection	IP 65 (front)
Ambient temperature	−20 ... +65 °C
Storage temperature	−40 ... +85 °C

Digital inputs

Input MPI*	Function of the inputs depending on set up
1. Function Display-Hold	to stop the instantaneous value

Auxiliary power supply output for measuring transducer/sensor

AC models	voltage output 10 V DC ±2%, 30 mA and voltage output 24 V DC ±15%, 50 mA
DC models	only voltage output 10 V DC ±2%, 30 mA

Interface

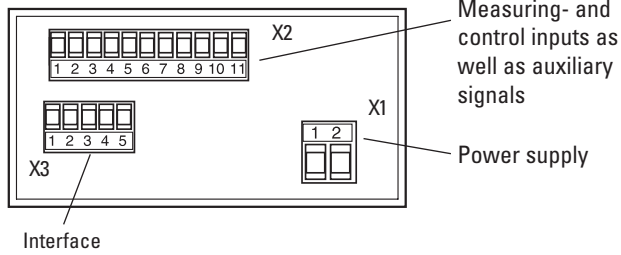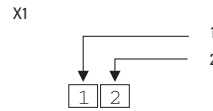|	
Available options	RS232, RS485, RS422
Baud rate	600, 1200, 2400, 4800, 9600, 19 200 programmable
Address	00 ... 99 programmable

*Multi Purpose Input

Dimensions:

Panel cut-out

Process controller

Kübler
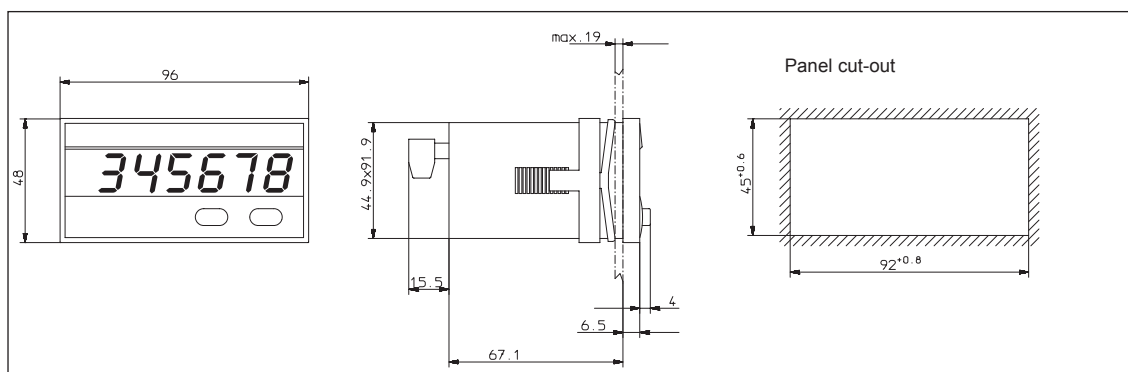
Connections:

Rear side view

Measuring- and control inputs as well as auxiliary signals

Power supply

Interface

Power supply and alarm outputs

	DC version	AC version
1	10 ... 30 V DC	90 ... 260 V AC (N~)
2	GND4 (0 V DC)	90 ... 260 V AC (L~)

Current measurement
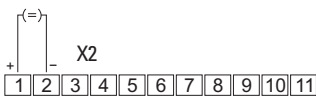
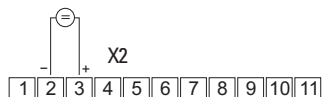| 1	Current input (I)
	0 ... 20 mA / 4 ... 20 mA
2	GND1 (Analog)

Control inputs and auxiliary power supply (U$_{out}$)
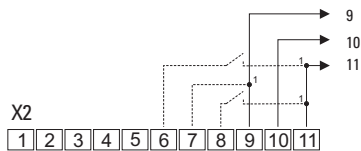
1 Alternatively connect directly to DC supply (galvanic separation of control and measurement inputs)

9	GND3 (for Uout)
10	Uout +10 V/30 mA
11	Uout +24 V/50 mA only for power supply
	90 ... 260 V AC
8	MP-Input
	Display-Hold
7	GND2 (MPI)

Voltage measurement

2	GND1 (Analog)
3	Voltage input (U)
	0 ... 10 V, 2 ... 10 V, -10 ... +10 V

Interface

X3 [1][2][3][4][5]

	RS232	RS485	RS422
1	GND	–	–
2	RxD	DO+/RI+	RI+
3	TxD	DO–/RI–	RI–
4	–	–	DO+
5	–	–	DO–

Serial interface
– For data transmission and documentation
– Connection for programmable logic controllers
– Programming via PC

Delivery includes:
Process display
Screw terminal, 2-pole, RM 5.08
Screw terminal, 11-pole, RM 3.81
Screw terminal, 5-pole, RM 3.81(*)
Clamping bracket
Gasket
Multilingual operating instructions
1 set of self-adhesive symbols
* only with the interface option

Order code:
6.550.012.X0X

Interface
0 = without interface
5 = RS232
6 = RS422
7 = RS485

Supply voltage
0 = 90 .. 260 V AC
3 = 10 .. 30 V DC