CODIX 553 with 2 limit values

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

Your benefit
- Programmable input characteristic curve with up to 24 control points
- Display-Hold or reset input for the limit values
- Very big keys for use with gloves
- Input for key-look
- very bright display
- Input range
  0 ... 20 mA, 4 ... 20 mA; 0 ...10 V
  2 ... 10 V; ±10 V
- Outputs
  2 limit values with programmable hysteresis and programmable signal behaviour, relays with change-over contact or optocoupler

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

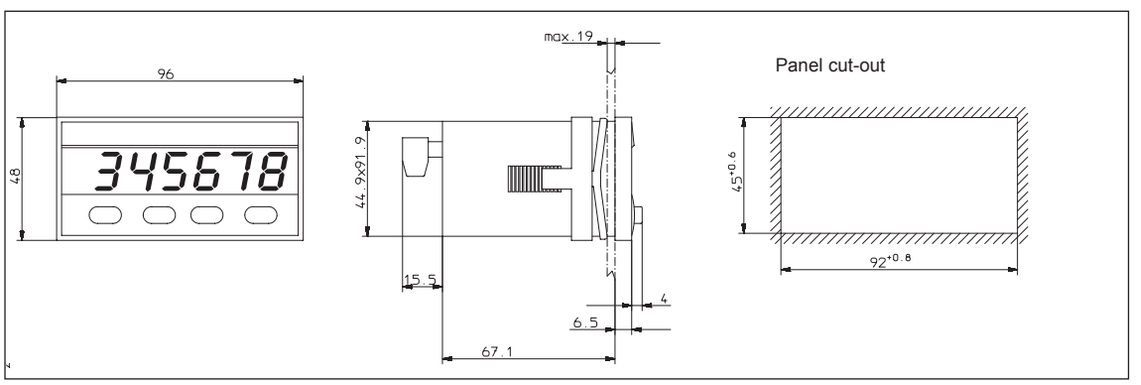
Technical data

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
2. Function Reset Alarm Latch	Reset the alarm value
Outputs	
Alarm 1/Alarm output 2	
Relay output	with volt-free changeover contacts can be setup as normally closed or normally open
Switching voltage	250 V AC/300 V DC
Switching current	max. 3 A AC/DC, min. 30 mA DC
Switching power	2000 VA / 50 Ω
or NPN-**optocoupler** with open collector and open emitter	
Switching power	30 V DC/15 mA
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, 19200 programmable
Address	00 ... 99 programmable

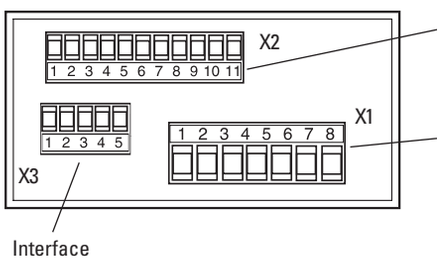
*Multi Purpose Input

Dimensions:

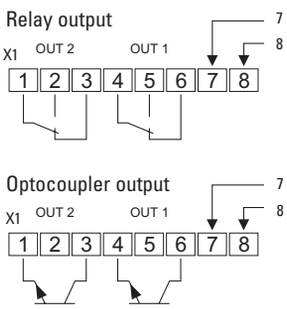


Connections:

Rear side view

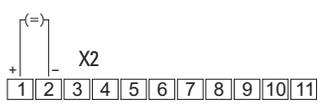


Power supply and alarm outputs



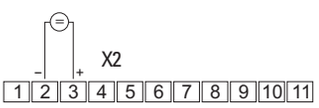
	DC version	AC version
7	10 ... 30 V DC	90 ... 260 V AC (N~)
8	GND4 (0 V DC)	90 ... 260 V AC (L~)

Current measurement



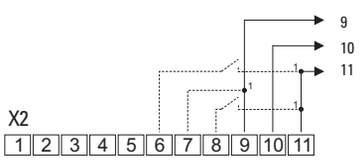
1	Current input (I) 0 ... 20 mA / 4 ... 20 mA
2	GND1 (Analog)

Voltage measurement



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

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 "Reset-Alarm-Latch/ Display-Hold
7	GND2 (KEY/MPI)
6	Keypad lock-out "Key"

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–

Application:

– Level measurement
– Flow measurement
– Pressure measurement
– Revolution measurement

Serial interface

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

Delivery includes:

Process display
Screw terminal, 8-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:

6.553.01X.X0X

- Interface
  - 0 = without interface
  - 5 = RS232
  - 6 = RS422
  - 7 = RS485
- Supply voltage
  - 0 = 90 .. 260 V AC
  - 3 = 10 .. 30 V DC
- Alarm output
  - 0 = relay
  - 1 = optocoupler