

LED Process Controllers – Codix 555



Available with serial interface

Your benefit

- Programmable input characteristic curve with up to 24 control points
- Totaliser for integration (totalisation) of the measured values (e.g. flow rate measurement => liquid level) with own scaling and programmable input threshold
- MIN/MAX value
- Display-Hold or reset input for the integration function (totaliser) or for the limit values
- Very big keys for use with gloves

- Input for key-lock
- 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

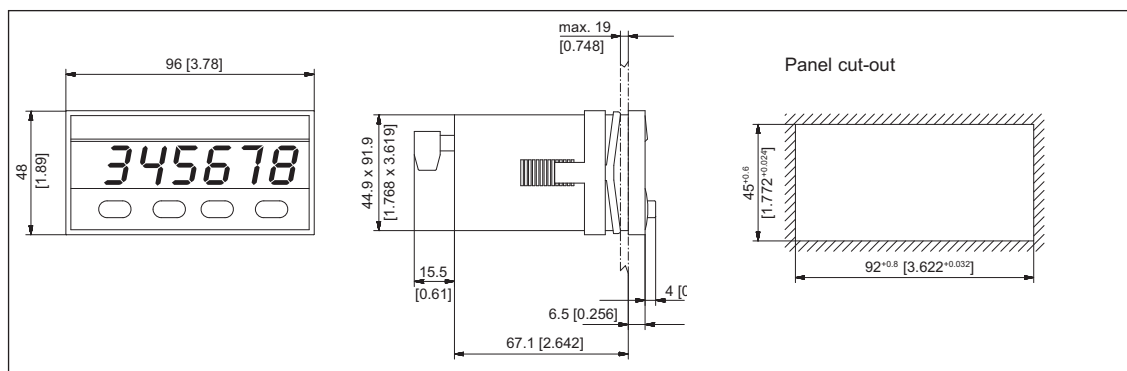
- Auxiliary power supply output for measuring transducer/sensor
- Optional serial interface

Technical data

Miscellaneous Data		Zero calibration	automatic
Display	5-digit display, red 7-segment LED's; height 14.2 mm [0.559"]	Temperature drift	100 ppm/K
Display range	-19999 ... 99999, with leading zeros suppression	Weight	approx. 220 g [7.76 oz]
Out of Range Indication	under-range uuuuu / Over-range ooooo	Protection	IP 65 (front)
Data storage	EEPROM, 1 Million storage cycles or 10 Years	Ambient temperature	-20 ... +65 °C [-4 °F ... 149 °F]
EMC:	Immunity to interference: EN55011 class B Emitted interference EN61000-6-2	Storage temperature	-40 ... +85 °C [-40 °F ... 185 °F]
Device safety:	design to: EN61010 Part 1 protection: Class: 2 application area: Soiling Level 2	Digital inputs	
AC power supply	90 ... 260 V AC/max. 6 VA external fuse 100 mA/T	Input MPI*	Function of the input is dependent on set up to stop the instantaneous value
DC power supply	10 ... 30 V DC, max. 2 W, galvanically isolated with inverse polarity protection external fuse 250 mA/T	1. Function Display-Hold	to stop the instantaneous value
Mains Hum Filter/digital filter	50 Hz or 60 Hz, programmable	2. Function Reset	Reset the alarm value
Measurement ranges		Alarm Latch	
Current input (DC)	ranges 0 ... 20 mA, 4 ... 20 mA resolution 2 μ A voltage drop max. 2 V at 20 mA max. current 50 mA	Input KEY	Keypad lock-out of alarm setting
Voltage input (DC)	ranges 0 ... 10 V, 2 ... 10 V, ± 10 V resolution 1 mV input resistance > 2 MW max. voltage ± 30 V	Outputs	
Measuring speed	approx. 2 measurements/s	Alarm 1/Alarm output 2	
Linearity	< 0.1% ± 1 Digit for the whole measuring range at an ambient temperature of 20°C [68 °F]	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 W
		Auxiliary power supply output for measuring transducer/sensor	
		AC models	voltage output 10 V DC $\pm 2\%$, 30 mA and voltage output 24 V DC $\pm 15\%$, 50 mA
		DC models	only voltage output 10 V DC $\pm 2\%$, 30 mA
		Interface	
		Available options	RS232, RS485, RS422
		Baud rate	600, 1200, 2400, 4800, 9600, 19200 programmable
		Address	00 ... 99 programmable

*MPI: Multi Purpose Input

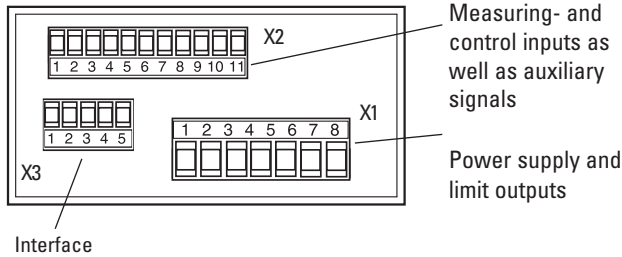
Dimensions:



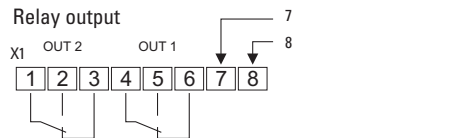
LED Process Controllers – Codix 555

Connections:

Rear side view



Power supply and alarm outputs



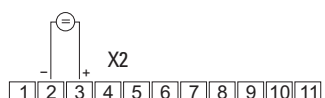
	DC version	AC version
7	10 ... 30 V DC	90 ... 260 V AC (N~)
8	GND4 (0 V DC)	90 ... 260 V AC (L~)

Current measurement



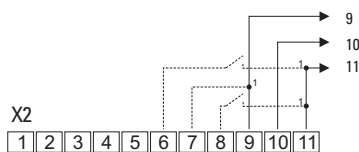
1	Current input (I) 0 ... 20 mA / 4 ... 20 mA
2	GND1 (Analogue)

Voltage measurement



2	GND1 (Analogue)
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 U _{out})
10	U _{out} +10 V/30 mA
11	U _{out} +24 V/50 mA only for power supply 90 ... 260 V AC
8	MP-Input "Reset-Alarm-Latch/Display-Hold/Reset Totalisator"
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
- Rotary speed control in conjunction with the 0 ... 10 V outputs from inverters

Serial interface

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

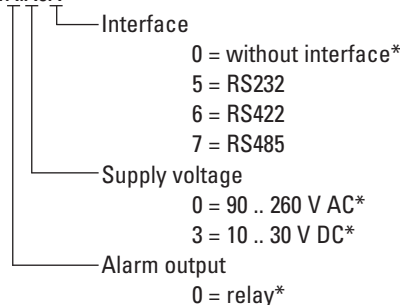
Delivery includes:

- 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:

6.555.01X.X0X



Replacement parts:

11-pin screw terminal	RM 3.81 1 ... 11:	N100356
2-pin screw terminal	RM 5.08 1 ... 2:	N100130
5-pin screw terminal	RM 3.81 1 ... 5:	N100399