

OM 351PM



- 3 ¹/₂ digit programmable projection
- 0...2/5/10 V
- 0...20 mA/4...20 mA
- Digital filter, Tare
- Size of DIN 96 x 48 mm
- Power supply 230 VAC

Options

Excitation • Dual comparator • Data output • Universal analog output Power supply 24 VAC, 110 VAC, 10...30 VDC

Description

Setting

The OM 351PM is a low-cost 3 1/2 digit panel programmable process monitor designed for direct projection of analog signals in required units. The instrument is based on an 8-bit controller with A/D converter, that secures good accuracy, stability and easy operation of the instrument.

Standard functions

Programmable display projection

manual, optional projection on the display may be set for both limit values of the input signal in "CM", e.g.: range 0...10 V ⇒ projection 10.0...150.0 Projection ±1999

Digital filter Radius of insensitiv. band of suppressed change of measured value Function resetting display upon non-zero input signal Tare External control display/instrument blocking Hold Lock control keys blocking or blocking access into "CM"

Operation

The instrument is set and controlled by five control keys located on the front panel. All programmable settings of the instrument are realised in two adjusting modes. . . ~ · · · ·

Configuration menu	(hereinatter reterred to as CM) is protected by an	
	optional number code and contains complete	
	instrument setting	
User menu	may contain arbitrary programming settings defined	
	in "CM" with another selective restriction	
	(see, change)	

All programmable parameters are stored in the EEPROM memory (they hold even after the instrument is switched off).

Options

Comparators are assigned to monitor two limit values with relay output. The limits have adjustable hysteresis within the full range of the display as well as selectable delay of the switch-on in the range of 0...99,9 s. Reaching the preset limits is signalled by LED and simultaneously by the switch-on of the relevant relay.

Excitation is suitable for feeding of sensors and transmitters. It has a galvanic isolation with fixed preset value of 15 VDC.

Data outputs are for their rate and accuracy suitable for transmission of the measured data for further projection or directly into the control systems. We offer an isolated RS232 and RS485 with the ASCII protocol.

Analog outputs will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer universal analog output with the option of selection of the type of output - voltage/current. The value of analog output corresponds with the displayed data and its type and range are selectable in CM.

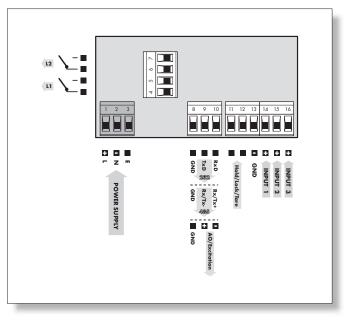


2003 - 3 - e

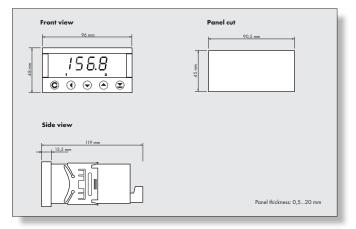
Technical data

MEASURING RANG		Impedance/Max. drop		
Range:	020 mA	< 400 mV	Input 1	
	420 mA 02 V	< 400 mV 1 M0hm	Input 1 Input 2	
	02 V 05 V	1 MOhm	Input 3	
	010 V	1 MOhm	Input 3	
"DC" Range:	020 mA	< 400 mV	Input 1	
(for DC non-isolated		< 400 mV	Input 1	
voltage)	05 V	1 MOhm	Input 2	
	010 V	1 MOhm	Input 3	
PROJECTION				
Display:		en 7-segment LED, digit height 14 i	mm	
Decimal point:	adjustable - in Configuration menu			
Brightness:	adjustable - in Con	figuration/User menu		
INSTRUMENT ACCU				
Tempco:	100 ppm/°C		1 dinia	
Accuracy: Rate:	±0,2 % of range (applies for full projection range) + 1 digit 1,3 - 2,5 - 5 - 10 measurements/s			
Overload capacity:	1,3 - 2,5 - 5 - 10 measurements/s 10x (t < 30 ms) - does not apply for 300 V and 5 A, 2x (long-term)			
Watch-dog:	reset after 20 ms Hold - stop measuring (upon contact)			
Function:				
		blocking (upon contact), not simu	Itaneously with Hold, Tare	
		stable in Configuration menu play upon non-zero input signal		
Calibration:	at 25°C and 40 %			
COMPARATOR				
COMPAKATOK Type:	digital adjuctable	in programming mode, contact sw	itch_on < 30 ms	
Limit 1 and 2	±1999	in programming mode, contact sw		
Hysteresis:	0999			
Delay:	099,9 s			
Outputs:	2 relays with switch-on (switch-off) contact (250 VAC/30 VDC, 3 A)			
		n is adjustable in Configuration me (250 VAC, 1 A) or open collector m		
	opon roquosi sok		a, 20 mild	
DATA OUTPUTS	. 1 000 00 0		1.0	
Data format: RS 232	rate 1 20038 40 isolated	10 Baud, 8 bit + no parity + 1 stop	bit	
KS 232 RS 485		ıg (max. 31 instruments)		
		5 (
ANALOG OUTPUTS			o	
Туре:	isolated, programmable with resolution max. 5 000 points, analog output corre-			
Non-linearity:	sponds with the displayed data, output type and range are selectable in CM 0,2 % of range			
Tempco:	100 ppm/°C			
Rate:	response to change of value < 100 ms			
Range:	02 V/5 V/10 V/	05 mA/0/420 mA (compens.	of conduct up to 600 Ohm)	
EXCITATION				
Fixed:	15 VDC/50 mA, wi	ith galvanic isolation		
POWER SUPPLY				
	24· 110· 230 VAC	50/60 Hz, ±10 %, 3 VA		
		200 mA, non-isolated (w/o PN, ar	alog output and RSxxx)	
	1030 VDĆ/max.	300 mA, (24 VDC/110 mA), isolat	ed	
	- power supply is p	rotected by a fuse inside the instru	iment	
MECHANIC PROPE	RTIES			
Material:	Noryl GFN2 SE1, ir	ncombustible UL 94 V-I		
Dimensions:	96 x 48 x 120 mm			
Panel cut:	90,5 x 45 mm			
OPERATING COND	TIONS			
Connection:		board, conductor section up to 2,5	5 mm²	
Stabilization period:	tabilization period: within 15 minutes after switch-on Vorking temperature: 0°60°C			
Storage temperature:	-10°85°C IP65, (front panel	anly)		
Covering: Construction:	safety class I	omyj		
Electrical safety: EN 61010-1, A2				
Overvoltage category: for pollution degree II				
		wer supply, relay output (300 V)		
FMC.		300 V) , II excitation (50 V)	FF0000 A1 A0	
EMC:	EN 61000-3-2+A12	2; EN 61000-4-2, 3, 4, 5, 8, 11; EN	550222, A1, A2	

Connection



Dimensions



Order code

