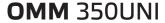
OMM 350UNI







- 3.5-digit programmable projection
- Multifunction input (DC, PM, RTD, T/C, DU)
- Digital filters, Linearization
- Size of DIN 72 x 24 mm
- Power supply 10...30 VDC/24 VAC

Option

Comparators

The OMM 350 model series are small 3.5-digit panel programmable instruments designed for maximum usefulness and user comfort while maintaining its fair price.

Type OMM 350UNI is a multifunction instrument with the option of configuration for 8 different input options, easily configurable in the instrument's menu.

The instrument is based on a microcontroller with ADC, which ensures good accuracy, stability and easy operation of the instrument.



UNIVERSAL INSTRUMENT



OPERATION

The instrument is controlled by four buttons situated on the front panel. All programmable settings of the instrument may be performed in three adjusting

LIGHT MENU is protected by optional number code and contains solely items necessary for instrument setting

PROFI MENU is protected by optional number code and contains complete instrument setting.

USER MENU may contain arbitrary items from the programming menu (LIGHT/ PROFI), which determine the right (see, change). Access w/o password.

Standard equipment is the OM Link interface, which together with operation program enables modification and filing of all instrument settings as well as performing firmware updates (with OML cable).

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

OPTION

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.

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Setting: manual, optional projection on the display may be set in menu for both limit values of the input signal, e.g. input 0...19.99 V > 0...150.0

Projection: -99999...9999

COMPENSATION

Wiring (RTD, OHM): automatic (3- or 4-wire) or manual in menu (2-wire) Probes (RTD): internal wiring (resistance of conductors in the measuring head) CJC (T/C): manual or automatic (terminal temperature)

FUNCTIONS

Linearization: non-linear signal is converted by a 25-point linear interpolation Tare: designed to reset display upon non-zero input signal

DIGITAL FILTERS

Exponential average: from 2...100 measurements Rounding: setting the projection step for display

EXTERNAL CONTROL

Hold: display/instrument blocking Lock: control keys blocking

Tare: designed to reset display upon non-zero input signal

TECHNICAL DATA

No. of	inputs	1 The range is adjustable in the instru	ument menu
DC	Range	020 mV > 10 MΩ 060 mV > 10 MΩ 01000 mV > 10 MΩ	Input 4 Input 3 Input 1
РМ	Range	020 mA < 200 mV 420 mA < 200 mV 02 V 10 MΩ 05 V 1.25 MΩ 010 V 1.25 MΩ	Input 9 Input 4 Input 4 Input 1
ОНМ	Range	0100 / 300 Ω 01.5 / 3 / 30 kΩ	
	Connection	2-, 3- and 4-wire	
RTD	Range	Pt 100/500/1 000, 3 850 ppm/°C Pt 100, 3 920 ppm/°C Pt 50, 3 910 ppm/°C Pt 100, 3 910 ppm/°C	-50°450°(-50°450°(-200°1100°(-200°450°(
	Connection	2-, 3- and 4-wire	
Ni	Range	Ni 1 000/10 000, 5 000 ppm/°C Ni 1 000/10 000, 6 180 ppm/°C	-50°250°0 -200°250°0
	Connection	2-, 3- and 4-wire	
Cu	Range	Cu 50/100, 4 260 ppm/°C Cu 50/100, 4 280 ppm/°C	-50°200°0 -200°200°0
	Connection	2-, 3- and 4-wire	
T/C	Range	J (Fe-CuN) K (NiC-Ni) T (Cu-CuN) E (NiC-CuN) B (PtRh30-PtRh6) S (PtRh10-Pt) R (Pt13Rh-Pt) N (Omegalloy) L (Fe-CuN)	-200°900°(-200°1300°(-200°400°(-200°690°(300°1820°(-50°1760°(-50°1300°(-200°900°(
	CJC	adjustable -20°99°C or automatic	al
DU	Sensor power supply	2.5 VDC/6 mA, potentiometer resistance > 500 Ω	

ROJECTION	

Display	-99999999999, single color 7-segment LED
Digit height	9.1 mm
Display color	red or green
Decimal point	adjustable - in menu
Brightness	adjustable - in menu
INSTRUMENT SPECI	FICATION

	E0 00		
TC	50 ppm/°C		
Accuracy	±0.2 % of FS + 1 digit ±0.3 % of FS + 1 digit ±0.6 % of FS + 1 digit above accuracies apply for projection 1999	T/C T/C - B	
Rate	0.510 measurement/s		
Overload	10x (t < 30 ms), 2x		
Compensation of conduct	< 30 Ω	RTD	
Measurement accuracy CJC	±1.5°C	T/C	
Resolution	0.1°C 1°C	RTD T/C	
Functions	Tare		
Digital filters	exponential average, rounding		
Linearization	linear interpolation in 25 points setup only via OM Link		
OM Link	company communication interface for operation, setting and update of instruments		
Watch-dog	reset after 500 ms		
Calibration	at 25°C and 40 % r.h.		

RELAYS / OC OUTPUT

No. of outputs	2
Туре	digital, menu adjustable
Mode	HYSTER. active above set value
Function Relays/OC	CLOSE is closed in active mode OPEN is open in active mode
Limits	-99999999999
Hysteresis	09999
Delay	099.9 s
Outputs	12x relay with bistable contact (Form A) (48 VAC/30 VDC, 3 A)* 12x open collector (30 VDC/100 mA)
Relays	1/8 HP 277 VAC 1/10 HP 125 V. Pilot Duty D300

POWER SUPPLY

Range	1030 VDC / 24 VAC, ±10 %, PF ≥ 0.4, L _{STP} < 45 A / 1 ms, isolated			
Consumption	< 2.1 W / 2.2 VA			

MECHANIC PROPERTIES

Material	Noryl GFN2 SE1, incombustible UL 94 V-I, black
Dimensions	72 x 24 x 106 mm (w x h x d)
Panel cutout	68 x 21.5 mm (w x h)

OPERATING CONDITIONS

Connection	connector terminal blocks, section < 1.5 / 2.5 mm ²
Stabilization period	within 5 minutes after switch-on
Working temperat.	-20º60ºC
Storage temperat.	-20°85°C
Working humidity	< 95 % r.v., non condensing
Protection	IP42, front panel only
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2.5 kVAC for 1 min. between power supply and input 4 kVAC per 1 min test between input and relay output
Insulation resist.*	for pollution degree II, measuring cat. III power supply, input > 300 V (PI), 150 V (DI)
EMC	EN 61326-1, Industrial area
Seismic capacity	IEC 980: 1993, par. 6

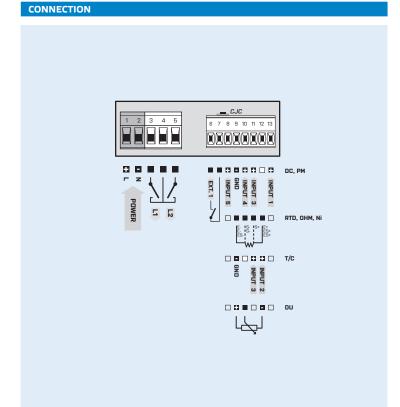
* PI - Primary insulation, DI - Double insulation

EXTERNAL INPUT No. of inputs

Function

1, on contact

OFF no function assigned LOCK control keys blocking measurement paused TARE tare activation



ORDER CODE

OMM 350UNI		. 0				- [
Power supply 1	030 VDC/24 VAC, isolated	0				ī
Measuring range	Pt 100/300 Ω		Α			
	Pt 500/1,5 kΩ		В			
	Pt 1 000/Ni 1 000/3 kΩ		С			
	Ni 10 000/30 kΩ		D			
Ranges DC, PM, T/C, DU are alway	s fitted on request		Z			
Comparators	no			0		
	1x relay (Form A)			1		
	2x relay (Form A)			2		
	1x open collector			3		
	2x open collector			4		
Display color	red				1	
	green				2	
Specification cus	tomized version, do not fill in					

Basic configuration of the instrument is indicated in bold.