OMM 350DC





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- 3.5-digit programmable projection
- Range ±1 A/±5 A ±20 V/±40 V/±100 V/±200 V
- Digital filters, Linearization
- Size of DIN 72 x 24 mm
- Power supply 10...30 VDC/24 VAC

Option

Comparators

DC V-A METER



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 350DC is a multi-range DC-VA meter.

The instrument is based on a microcontroller with ADC which ensures good accuracy, stability and easy operation of the 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...100 V > 0...250,0

Projection: -9999...9999

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 kevs blocking

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

TECHNICAL DATA

No. of inputs	1 The range is adjustable in the instrument menu		
DC Range	±1 A	> 12 mV	Input
	±5 A	> 60 mV	Input
	±20 V	> 2 MΩ	Input
	±40 V	> 2 MΩ	Input
	±100 V	> 10 MΩ	Input
	±200 V	> 10 MΩ	Input

EXTERNAL INPUT

No. of inputs	1, on contact
Function	OFF no function assigned LOCK control keys blocking HOLD measurement paused TARE tare activation

PROJECTION

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 SPECIFICATION		
TC	50 ppm/°C	
Accuracy	±0.2 % of FS + 1 digit above accuracies apply for projection 1999	
Rate	0.510 measurement/s	
Overload	10x (t < 30 ms), 2x not valid for 200 V and 5 A ranges	
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

* values apply for resistance load

POWER SUPPLY

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

MECHANIC PROPERTIES

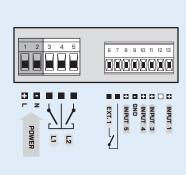
Material	Noryl GFN2 SE1, incombustible UL 94 V-I, black
Dimensions	72 x 24 x 106 mm (w x h x d)
Panel cutout	68 x 21.5 mm (w x h)

OPERATING CONDITIONS

Connection	connector terminal blocks, section < 1.5 / 2.5 mm ²
Stabilization period	within 5 minutes after switch-on
Working temperat.	-20°60°C
Storage temperat.	-20º85ºC
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

CONNECTION



ORDER CODE

ONDER COD	-				
OMM 350	DC -	0			-
Power supply	1030 VDC/24 VAC, isolated	0			
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	customized version, do not fill in				00

Basic configuration of the instrument is indicated in bold.