## **OMM** 350DC



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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 single-chip microcontroller with an A/D converter, which ensures good accuracy, stability and easy operation of the instrument.

## DC V-A METER

- 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 х 24 мм
- POWER SUPPLY 10...30 VDC/24 VAC
- Option Comparators

#### **DMM 350DC** DC VOLTMETER AND AMMETER

#### 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 modes:

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: through linear interpolation in 25 points (solely via OM Link) Tare: designed to reset display upon non-zero input signal

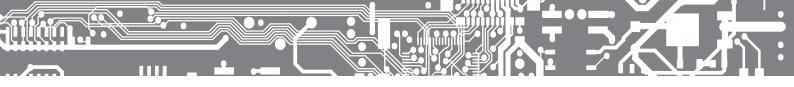
#### DIGITAL FILTERS

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

INPU	т				
DC	Range	fixed - by	order		
		±1 A	< 12 mV	Input 5	
		±5 A	< 60 mV	Input 5	
		±20 V	> 2 MΩ	Input 4	
		±40 V	> 2 MΩ	Input 3	
		±100 V	> 10 MΩ	Input 1	
		±200 V	> 10 MΩ	Input 1	
Exter	nal input	1 input, or	n contact		
		The follov	ving functions can be assigned:		
		OFF	input off		
		LOC.	control keys blocking		
		HOD	display stop		
		TAR.	tare activation		

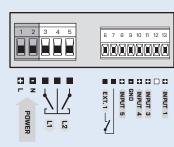
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PROJECTION Display: -99999999999, single color 7-segment LED Digit height: 9,1mm Display color: red or green Decimal point: adjustable - in menu Brightness: adjustable in menu	
INSTRUMENT ACCURACY TK: 50 ppm/°C Accuracy: ±0,2 % of range + 1 digit [for projection -9991999] Rate: 0,510 measur/s Dverload capacity: 2x; 10x (t < 30 ms) - not for 200 V and 5 A Linearization: linear interpol. in 25 points (only via 0M Link) Digital filters: exponential average, rounding Functions: Tare 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.	
COMPARATORS Type: digital, menu adjustable, contact switch-on < 50 ms Hysteresis mode: switching limit, hysteresis band ,Lim ±1/2Hys.* and time (±99,9 s) determining the switching delay Output: 12x relay with bistable contact (48 VAC/30 VDC, 3 A); 12x open collector (30 VDC/100 mA)	
POWER SUPPLY Range: 1030 VDC/24 VAC, $\pm$ 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-1 Dimensions: 72 x 24 x 106 mm (w x h x d) Panel cutout: 68 x 215 mm (w x h)	
Patiel Collut: 56 X 2,01ml (w x 1) OPERATING CONDITIONS Connection: connector terminal blocks, section < 1,5/2,5 mm <sup>2</sup> Stabilization period: within 15 minutes after switch-on Working temperature: -20°80°C Storage temperature: -20°85°C Protection: IP42 (front panel only) EL confert: 06 (2010) 1.02	

Protection: IP42 (front panel only) El. safety: EN 61010-1, A2 Dielectric strength: 2,5 KVAC per 1 min test between supply and input 4 kVAC per 1 min test between input and relay output Insulation resistance: for pollution degree II, measuring cat. III Instrument power supply, input > 300 V (PI), 160 V (DI) EMC: EN 61326-1 Seismic capacity: IEC 980: 1993, par. 6

CONNECTION

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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			



Basic configuration of the instrument is indicated in bold.

PI - Primary insulation, DI - Double insulation