



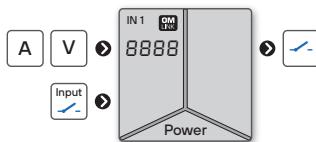
OML 343DC



- 3.5-digit programmable projection
- Range $\pm 1 \text{ A}/\pm 5 \text{ A}$
 $\pm 120 \text{ V}/\pm 240 \text{ V}$
- Digital filters, Tare
- Size of DIN 96 x 48 mm
- Power supply 10...30 VDC/24 VAC

Option Comparator

DC V-A METER



Type OML 343DC is an inexpensive programmable 3.5-digit panel direct current VA-meter designed for simple applications with an instrument box depth of only 30 mm.

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

OPERATION

The instrument is set and controlled by five buttons accessible from the rear. 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). The program is also designed for visualization and filing of measured values from more instruments.

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

OPTION

COMPARATOR is 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

Selection: measuring range

Setting: manual, optional projection on the display may be set in menu for both limit values of the input signal, e.g. input 0...1 A > 0...100.0

Projection: ± 1999

FUNCTIONS

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

Tare: tare activation

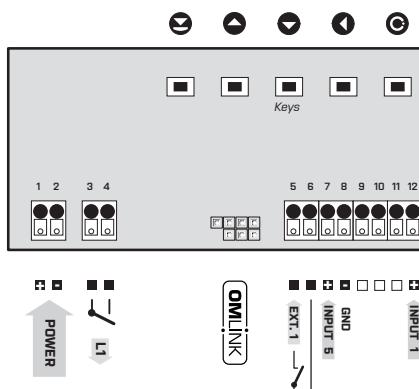
TECHNICAL DATA

INPUT		PROJECTION		RELAYS / OC OUTPUT		POWER SUPPLY	
No. of inputs	1 The range is adjustable in the instrument menu	Display	±1999, single color 7-segment LED	No. of outputs	1	Range	10...30 VDC / 24 VAC, ±10%, PF ≥ 0.4, $I_{\text{sp}} < 45 \text{ A} / 1 \text{ ms}$, isolated
DC Range	±1 A > 12 mV ±5 A > 60 mV ±120 V > 10 MΩ ±240 V > 10 MΩ	Digit height	14 mm	Type	digital, menu adjustable	Consumption	< 1.8 W / 19 VA
	Input 5 Input 5 Input 1 Input 1	Display color	red or green	Mode	HYSTER. active above set value		
		Decimal point	adjustable - in menu	Function Relays/OC	CLOSE is closed in active mode OPEN is open in active mode READY output indicates error-free status ERROR output indicates an error condition		
		Brightness	adjustable or automatically controllable	Limits	±1999		
EXTERNAL INPUT		INSTRUMENT SPECIFICATION		Hysteresis	±1999		
No. of inputs	1, on contact	TC	50 ppm/°C	Delay	0...99.9 s		
Function	No function assigned Measurement paused Control keys blocking Menu access blocking	Accuracy	±0.15 % of FS	Outputs	1x relay with switch on contact (Form A) (250 VAC/30 VDC, 3 A)* 1x open collector (30 VDC/100 mA)		
		Rate	0.5...20 measurement/s	Relays	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300		
		Overload	10x (t < 30 ms), 2x not valid for 240 V and 5 A ranges				
		Functions	Tare				
		Digital filters	exponential average, rounding				
		DM 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.				

* values apply for resistance load

* PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OML 343DC

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Comparator	no	0	1	2	
	1x relay (Form A) 1x open collector				
Display color	red green	1	2		
Gasket	no Silicone gasket between instrument and panel	0	1		
Specification	customized version, do not fill in				00

Basic configuration of the instrument is indicated in bold.