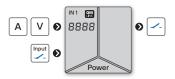
OML 343DC



DC V-A METER



OML 343DC



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

Option

Comparator

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

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

No. of inputs	1 The range is adjustable in the instrument menu			
DC Range	±1 A	> 12 mV	Input	
	±5 A	> 60 mV	Input	
	±120 V	> 10 MΩ	Input	
	±240 V	> 10 MΩ	Input	

EXTERNAL INPUT

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

PROJECTION

Display	±1999, single color 7-segment LED
Digit height	14 mm
Display color	red or green
Decimal point	adjustable - in menu
Brightness	adjustable or automatically controllable

INSTRUMENT SPECIFICATION

INSTRUMENT SPECIFICATION			
TC	50 ppm/°C		
Accuracy	±0.15 % of FS + 1 digit		
Rate	0.520 measurement/s		
Overload	10x (t < 30 ms), 2x not valid for 240 V and 5 A ranges		
Functions	Tare		
Digital filters	exponential average, rounding		
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	1	
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 READY output indicates error-free status ERROR output indicates an error condition	
Limits	±1999	
Hysteresis	±1999	
Delay	099.9 s	
Outputs	1x relay with switch-on contact (Form A) (250 VAC/30 VDC, 3 A)* 1x 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		
ĺ	Consumption	< 1.8 W / 1.9 VA		

MECHANIC PROPERTIES

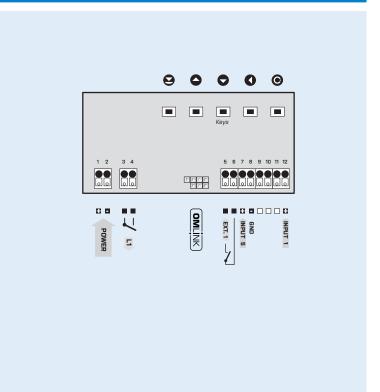
Material	PC, incombustible UL 94 V-I, black
Dimensions	96 x 48 x 30 mm (w x h x d)
Panel cutout	92 x 44 mm (w x h)

OPERATING CONDITIONS

Connection	terminal blocks, section < 1.5 mm ²			
Stabilization period	within 5 minutes after switch-on			
Working temperat.	-20°60°C			
Storage temperat.	-20°85°C			
Working humidity	< 95 % r.v., non condensing			
Protection	IP65, front panel only with a gasket			
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) input, output > 300 V (DI)			
EMC	EN 61326-1, Industrial area			
Seismic capacity	IEC 980: 1993, par. 6			

^{*} PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

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OML 343DC	-				- 🗌
Comparator	no	0			
	1x relay (Form A)	1			
	1x open collector	2			
Display color	red		1		
	green		2		
Gasket	no			0	
Silicone gasket between instrument and panel	yes			1	
Specification customized ve	rsion, do not fill in				00

Basic configuration of the instrument is indicated in bold.