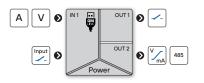
OMX 333PWR



DIGITAL ISOLATED AC TRANSMITTER



OMX 333PWR



- Range 0...1/2.5/5A; 0...60/150/300mV
 0...10/120/250/450V
- Output 0/4...20 mA/0...5 mA/0...2/5/10 V/±10 V
- Digital filters, Tare
- Galvanic separation 2.5 kVAC
- Power supply 10...30 VDC/24 VAC

Option

Comparators • Data output

The OMX 333 model series are simple DIN rail mountable adjustable trasmitters.

Type OMX 333PWR is a universal alternating current V-A meter with the extention of functions for further network analysis. The instrument measures voltage, current, active power and with calculation also apparent power and cos fi.

The instrument is based on a microcontroller, true RMC and DAC, which provides good accuracy, stability and ease of use.

OPERATION

Instrument can be controlled by two push buttons and a DIP switch located on the front panel. When frequent changes of settings are needed, we recomend the use of OM Link interface, which in conjunction with free control SW alows for modification and storage of all instrument's settings and also for firmware upload (using OM Ling cable) from a PC.

The above mentioned SW can also be used for visualisation and archiving of measured values from a number of instruments via the RS 485 line.

All settings are stored in the EEPROM memory (they 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.

DATA OUTPUTS are for their rate and accuracy suitable for transmission of the measured data for further projection or directly into the control systems. We offer an isolated RS485 with ASCII protocol.

STANDARD FUNCTIONS

PROGRAMMABLE INPUT

Measuring range: adjustable in menu Teach-In: Min and Max values can be assigned to any two values of (unknown) input signal

Measuring modes (PWR): voltage (V_{RMS}), current (A_{RMS}), power (W) and with calculation apparent power (S) and power factor (cos fi)

ANALOG OUTPUT

Type: isolated, programmable with a resolution of 16 bit, rate < 0.2 ms Ranges: $0...2/5/10 \text{ V/}\pm10 \text{ V}$, 0...5 mA/0/4...20 mA

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 a "shorter" number for further signal processing

EXTERNAL CONTROL

Hold: display/instrument blocking Lock: control keys blocking Tare: activation and tare resetting

TECHNICAL DATA

Чji

'|1

INPUT			I	NSTI
No. of inputs	1			TC
	The range is a	adjustable in the instru	ment menu	Accu
PWR Range	060 mV 0.150 mV	21 kOhm 21 kOhm	Input 5	Rate
	0300 mV	1,2 kOhm		Over
	01 A	< 150 mV	Input 5	
	02,5 A	< 150 mV < 150 mV	Input 5	Func
	010 V	152 kOhm		Digit
	0120 V 0250 V 0450 V	930 kOhm 730 kOhm 930 kOhm	Input 1 Input 3 Input 1	Linea
Input frequency	40400 Hz			OML
Measured	Voltage (V			Wato
quantities	Current (A _{RMS} Active power			Calib
	with calculati	on		
	Reactive pow Apparent pov			
	Power factor	(cos fi)		

երկերի

TRUMENT SPECIFICATION			
	50 ppm/°C		
curacy	±0.3 % of FS + 1 digit		
te	0.55 measurement/s		
erload	10x (t < 30 ms), 2x not valid for > 200 V and 5 A ranges		
nctions	tare		
ital filters	exponential average, rouding		
earization	linear interpolation in 25 points setup only via OM Link		
l Link	company communication interface for operation, setting and update of instruments (microUSB)		
tch-dog	reset after 500 ms		
ibration	at 25°C and 40 % r.h.		

նուկալովտովա

EXTERNAL INPUT

No. of inputs	1, on cont	act
Function	OFF HOLD LOCK TARE CL. TA.	no function assigned measurement paused control keys blocking tare activation tare resetting

No. of outputs	up to 2	Range
Туре	digital, menu adjustable	
Mode	HYSTER. active above set value	Consumption
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	MECHANIC PROP
Limits	-99999999999	Material
Hysteresis	0999999	Dimensions
Delay	099.9 s	Installation
Outputs	12x relay with switch-on contact (Form A) (250 VAC/30 VDC, 3 A)*	OPERATING CON
	12x open collector (30 VDC/100 mA)	Connection
Relays	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300	Stabilization perio
NALOG OUTPUT	* values apply for resistance load	Working temperat
	-	Storage temperat.
No. of outputs	1	Working humidity
Туре	isolated, adjustable with 16-bit DAC, output type and range is selectable	Protection
TC	15 ppm/°C	Construction
Non-linearity	0.1 % from FS	El. safety
Accuracy	±0.02 % of FS	Dielectric strength
Rate	response to change of value < 1 ms	
Ranges	02 / 5 / 10 V, ±10 V, resistive load ≥ 1 kΩ 05 / 20 mA /420 mA, comp. < 600 Ω/12 V Indication of error message (output < 3.2 mA)	Insulation resist.*
		EMC
DATA OUTPUTS		Seismic qualification
No. of outputs	1	Mechanical
Protocol	ASCII	resistance
Data format	8 bit + no parity + 1 stop bit	

նուներիներին հետևուներին հետևություն

WER SUPPLY	
nge	1030 V AC/DC, \pm 10 %, PF \geq 0.4, I _{STP} < 40 A / 1 ms, isolated <i>Protection by fuse inside the device.</i>
nsumption	< 2 W/2 VA
CHANIC PROPER	TIES
aterial	PA 66, incombustible UL 94 V-I, blue
mensions	25 x 79 x 90.5 mm (w x h x d)
stallation	on DIN rail, width 35 mm
ERATING CONDIT	TIONS
nnection	connector terminal blocks, section < 1.5 / 2.5 mm ²
abilization period	within 5 minutes after switch-on
orking temperat.	-20º60ºC
orage temperat.	-20º85ºC
orking humidity	< 95 % r.v., non condensing
otection	IP20
nstruction	safety class I
safety	EN 61010-1, A2
electric strength	2.5 kVAC per 1 min test between supply and input 2.5 kVAC per 1 min test between supply and analog output
sulation resist.*	for pollution degree II, measuring cat. III power supply > 300 V (PI), 255 (DI) input, output > 300 V (PI)
1C	EN 61326-1, Industrial area
	150 (1555 C0000 244 5 K); 4.0 2020 C.0

111

11

'11'

лh

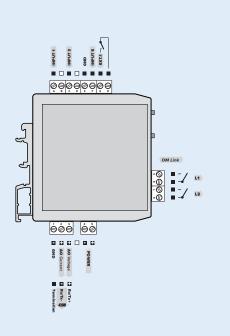
No. of outputs	1
Protocol	ASCII
Data format	8 bit + no parity + 1 stop bit
Rate	300230 400 Baud
RS 485	isolated, addressing (max. 31 instruments)

* PI - Primary insulation, DI - Double insulation

IEC/IEEE 60980-344 Edition 1.0, 2020, par. 6, 9

EN 60068-2-6 ed. 2:2008

CONNECTION



ORDER CODE OMX 333PWR

OMX 333PW	'R -					-
Volatge range	010 V/120 V	s				
	0250 V/450 V	U				
Current range	060 mV/300 mV		К			
	01 A/2,5 A/5 A		Р			
Comparators	no			0		
	1x relay (Form A)			1		
	2x relay (Form A)			2		
	1x open collector			3		
	2x open collector			4		
Output	none				0	
	analog				1	
	RS 485				2	
Specification c	ustomized version, do not fill in					00

Basic configuration of the instrument is indicated in bold.