

ANALOGUE INPUTS - AC



- AC CURRENT/VOLTAGE, POWER, FREQUENCY, PF
- 1-PHASE AND 3-PHASE MEASUREMENT



ANALOGUE INPUTS - AC

OMC 8100 - PWR is a module for the measurement of alternating current, voltage, power, frequency and PF.

OMC 8000 - 3PWR is a module for 3-phase measurement of alternating current, voltage, power, frequency and PF. Individual inputs are mutually isolated which allows for economical and comfortable connection into the measured circuit.

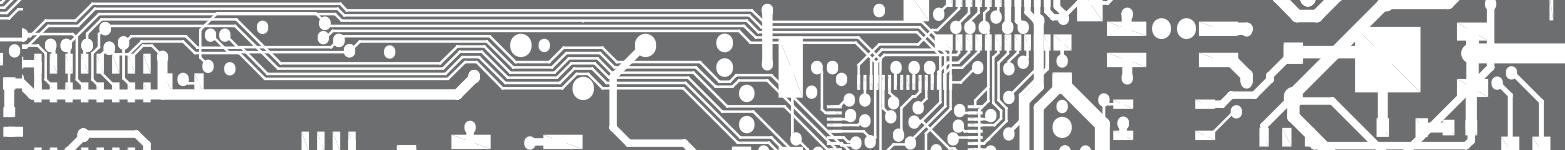
MEASURED VALUES

- voltage (VRMS)
- current (ARMS)
- active power (P)
- frequency (Hz)
- with calculation of
- reactive power (Q)
- apparent power (S)
- PF ($\cos \phi$)

EXPANSION MODULES

OMC 8100 - PWR

OMC 8000 - 3PWR



OMC 8100 - PWR

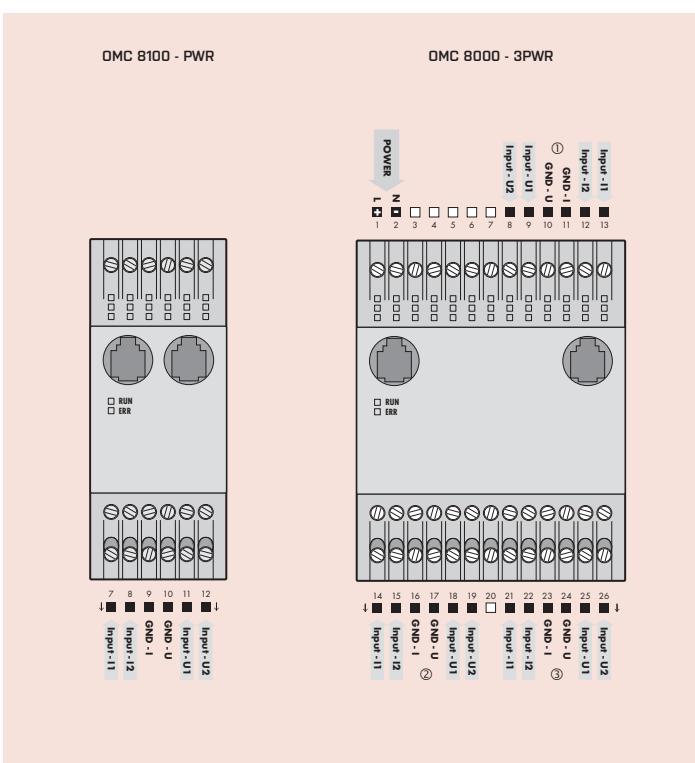
OMC 8000 - 3PWR

INPUTS

OMC 8100 - PWR		OMC 8000 - 3PWR		
Number of inputs	1	3		
Type	analogue	analogue		
Measuring range - U	0...10 V 0...120 V 0...250 V 0...450 V	Input U1 Input U2 Input U1 Input U2	0...10 V 0...120 V 0...250 V 0...450 V	Input U1 Input U2 Input U1 Input U2
Measuring range - I	0...60 mV 0...150 mV 0...1 A 0...5 A	Input I1 Input I1 Input I2 Input I2	0...60 mV 0...150 mV 0...1 A 0...5 A	Input I1 Input I1 Input I2 Input I2
Frequency range	0...400 Hz (up to amplitude of 8 V)	0...400 Hz (up to amplitude of 8 V)		
Number of phases	1	3		
Measuring	Voltage (V_{RMS}), Current (A_{RMS}), Active power (P), Frequency [Hz], Idle power (Q), Apparent power (S), PF [$\cos \phi$])			
Rozlišení	24 bits	24 bits		
Overload capacity	2x	2x		
Accuracy	0,3 % of range, [Q, S cos φ - 1 %]	0,3 % of range, [Q, S cos φ - 1 %]		
Rate	10 meas./s	10 meas./s		
LED signalisation of input state	yes	yes		

SPECIFICATIONS

Module width	36 mm	72 mm
Maximum consumption	150 mA	5 VA
Power supply	Powered by the Bus	24 V AC/DC 80...250 V AC/DC
Working temperature	-20°...60°C	
Cover	IP 40	
Dielectric strength	4 kVAC for the duration of 1 minute between supply and output	
Insulation resistance	for pollution degree II, measuring cat. III, 300 V [Z1], 150 [D1]	
Electric safety	EN 61010-1, A2	
EMC	EN 61326-1	

CONNECTION**ORDER CODE**

OMC 8100 - PWR			-	<input type="checkbox"/>	<input type="checkbox"/>
Measuring range - U	0...10 V/120 V 0...250 V/450 V on request	S U Z			
Measuring range - U	0...30/150 mV 0...1/5 A on request	K P Z			

OMC 8000 - 3PWR

OMC 8000 - 3PWR			-	<input type="checkbox"/>	<input type="checkbox"/>
Power supply	24 V AC/DC, isolated 80...250 V AC/DC, isolated	0 1			
Measuring range - U	0...10 V/120 V 0...250 V/450 V on request	S U Z			
Measuring range - U	0...30/150 mV 0...1/5 A on request	K P Z			