



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 ($\cos \varphi$)

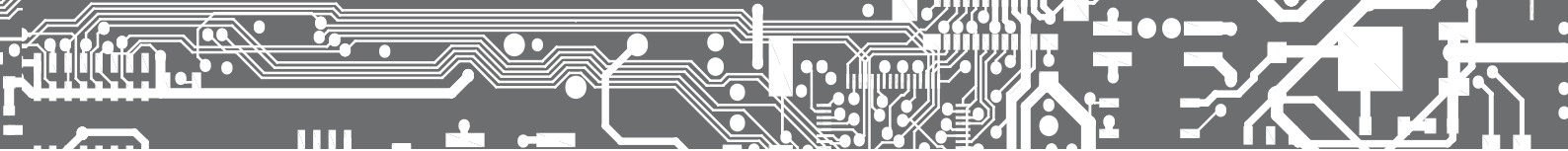
EXPANSION MODULES

OMC 8100 - PWR

OMC 8000 - 3PWR

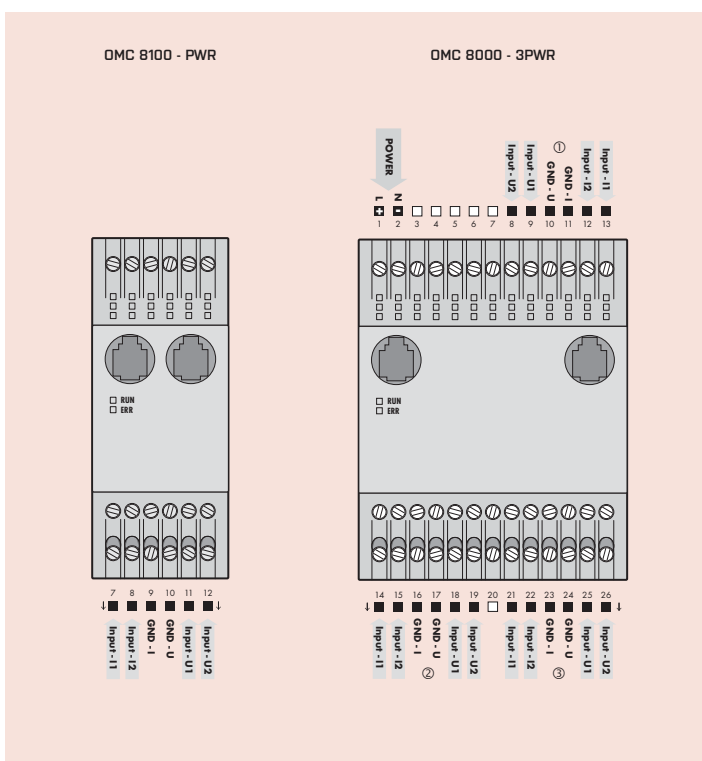


- AC CURRENT/VOLTAGE, POWER, FREQUENCY, PF
- 1-PHASE AND 3-PHASE MEASUREMENT



	OMC 8100 - PWR	OMC 8000 - 3PWR
INPUTS		
Number of inputs	1	3
Type	analogue	analogue
Measuring range - U	0...10 V Input U1 0...120 V Input U2 0...250 V Input U1 0...450 V Input U2	0...10 V Input U1 0...120 V Input U2 0...250 V Input U1 0...450 V Input U2
Measuring range - I	0...60 mV Input I1 0...150 mV Input I1 0...1 A Input I2 0...5 A Input I2	0...60 mV Input I1 0...150 mV Input I1 0...1 A Input I2 0...5 A 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
Mesuring	Voltage (V_{RMS}), Current (A_{RMS}), Active power (P), Frequency (Hz), Idle power (Q), Apparent power (S), PF (cos ϕ)	
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 (ZI), 150 (DI)	
Electric safety	EN 61010-1, A2	
EMC	EN 61326-1	

CONNECTION



ORDER CODE

OMC 8100 - PWR	-		
Measuring range - U	0...10 V/120 V	S	
	0...250 V/450 V	U	
	on request	Z	
Measuring range - U	0...30/150 mV	K	
	0...1/5 A	P	
	on request	Z	

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