

Transmitter for kW, 3-phase symmetrical load
Connection to 3-phase from 3 x 400 VAC up to 3 x 460 VAC
Monitoring of total power consumption ($\sqrt{3} \times U \times I \times \cos \varphi$)
Current monitoring with external current transformers
Analogue output 0-20 mA / 4-20 mA and 0-10 / 2-10 V
SO1 and counter outputs for kWh
Galvanic separation, supply - output
Made in accordance with the CE and EMC regulations



FPA96 is monitoring the power consumption on 3-phase asymmetrical loads, and it can be used for all kind of power monitoring within normal supply voltages. The supply voltage for the unit and the monitoring voltage is the same. The supply voltages are monitored directly, and the current monitoring is made by means of external current transformers with 1 or 5 A nominal output, so there are no limitations regarding the current ranges. The unit has both current and voltage outputs, which are selectable as 0-20 mA and 0-10 V or 4-20 mA and 2-10 V. The selection of transformer type and output range is made by means of digital inputs, and it is also possible to select an output filter, which makes the output more stable if the monitored power is very unstable. The module generates 1000 pulses per hour at 100% load, and these pulses are transferred to the SO1 and counter output. The user can scale the connected PLC or instrument in accordance with the actual current transformers. The calibrated metering ranges are shown below.

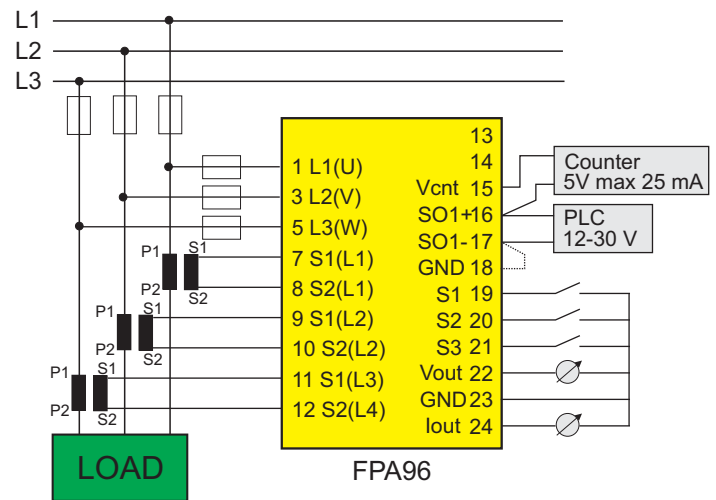
Technical data:

Supply voltage: 3x400-3x460 VAC +/- 10%
Frequency: 45-65 Hz
Operating temp.: -15 to +50°C
Current input: External CT: N/1A, N/5A
Input resistance: 10 mOhm
Accuracy: Classe 2
Analogue output 1: 0(4)-20 mA, max 300 Ohm
Analogue output 2: 0(2)-10 V, min 10 kOhm
kWh output: 1000 pph/fs, 200 msec.
SO1 output: passive opto coupler, limited to 25 mA.
Weight: 300 g
Dimensions: 58 x 70 x 86 mm
CE mrk: EN50081-1, EN50082-2, EN61010-1

Metering ranges.

U nom	400	415	440	460
P nom	0.69	0.72	0.76	0.80

Connections:



Note:

The connection GND-SO1- is only used together with counter connection.

Digital inputs.

S1	N / 5 A	OFF
	N / 1 A	ON
S2	Filter x 1	OFF
	Filter x 16	ON
S3	4-20 mA (2-10 V)	OFF
	0-20 mA (0-10 V)	ON

Ordering guide:

FPA96-3-400 *
 FPA96-3-415
 FPA96-3-440
 FPA96-3-460

* = stock unit