

OMP 100

DIN RAIL MOUNTED STABILIZED SOURCE



1. DESCRIPTION



DESCRIPTION

The OMP 100 is a stabilized source for sensor power supply.

The source is in a plastic DIN box with terminal board to a 35 mm rail.

On the face of the transmitter there is a two-color LED, which indicates the operation status of the source.

LED SIGNALIZATION

LED Status

green source on
red source overloaded

2. CONNECTION

SAFETY INSTRUCTIONS

Please read carefully the enclosed safety instructions and observe them!

These instruments should be safeguarded by isolated or common fuses (breakers) with regard to their actual consumption!

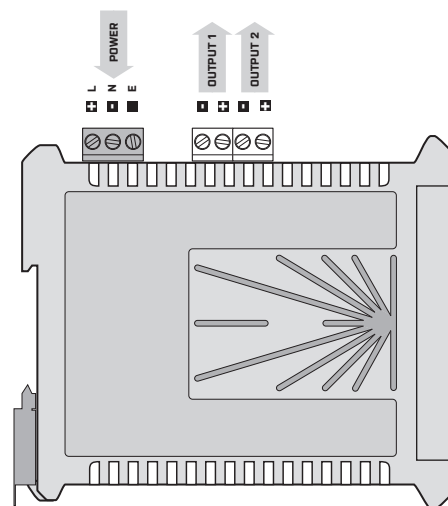
The regulation EN 61 010-1 + A2. must be observed for safety information.

This instrument is not explosionproof!

TECHNICAL DATA

The stabilized source OMP 100 complies with the European regulation 89/336/EEG and with the Czech Government regulation 168/1997 Sb.

The instrument is suitable for unlimited use in agricultural and industrial areas.



! Grounding on terminal „E“ must always be connected.

OUTPUT VOLTAGE SETTINGS

Output of the source consists of two independent output voltages of 5 or 12 V with a mutual insulation of 60 V.

The technical solution allows loading of even one output only.

The outputs can be connected in series or in parallel.

3. TECHNICAL DATA

OUTPUT

Output: 2x 5 VDC/8 A or
12 VDC/4 A, max. 96 W
Tolerance: $\pm 0,25$ V
Regulation: $\pm 0,1$ V
Ripple: < 50 mV_{pp}
Outage span: > 200 ms
Efficiency: $> 80\%$
Insulation: 60 V between inputs
Functions: Active current restriction as per selected range. Overloading is signalized by a red LED.

POWER SUPPLY

Range: 230 V AC/DC, 50/60 Hz, $\pm 20\%$, 90 VA
Input frequency: DC, 47..63 Hz
Input current: 500..45 mA
Starting current: < 20 A, $< 1,5$ ms
Protection: by a fuse inside the instrument (T4A)

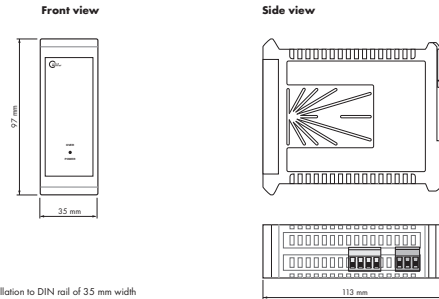
MECHANIC PROPERTIES

Material: PA 66, incombustible UL 94 V-1, blue
Dimensions: 113 x 98 x 35 mm
Installation: to DIN rail, 35 mm wide

OPERATING CONDITIONS

Connection: conn. terminal board, section $< 2,5$ mm²
Stabiliz. period: within 5 minutes after switch-on
Working temper.: 0°..60°C
Storage temper.: -10°..85°C
Cover: IP20
El. safety: EN 61010-1, A2
Insul. resistance: for pollution degree II, measuring cat. III.
Power supply, output
 > 300 V [Z], 250 V [DI]
EMC: EN 61000-3-2+A12;
EN 61000-4-2, 3, 4, 5, 8, 11
EN 550222, A1, A2
Seismic capacity: IEC 980: 1993, art. 6

4. INSTRUMENT DIMENSIONS



Installation to DIN rail of 35 mm width

! When installing the transmitter it is recommended to ensure that there is an air flow along the side walls.

5. DECLAR. OF CONFORMITY

Company: ORBIT MERRET, spol. s r.o.
Klánova 81/141, 142 00 Prague 4
Czech Republic
VAT No.: CZ 00551309

Manufacturer: ORBIT MERRET, spol. s r.o.
Vodňanská 675/30, 198 00 Prague 9
Czech Republic

declares at its explicit responsibility that the product presented hereunder meets all technical requirements, is safe for use when utilised under the terms and conditions determined by ORBIT MERRET, and that our company has taken all measures to ensure conformity of all our products, which are being brought out to the market, with technical documentation and requirements of the respective Czech Government regulations

Product: Stabilized source
Model: OMP 100

has been designed and manufactured in conformity with the following requirements:

Government regulation No. 17/2003 Coll. on low-voltage electric equipment (Directive No. 73/23/EHS)
Government regulation No. 18/2003 Coll. on electromagnetic compatibility (Directive No. 89/336/EHS)

The product qualities are in conformity with the harmonized standards:

El. safety: EN 61010-1
EMC: EN 50131-1, chap. 14 and chap. 15
EN 50130-4, chap. 7
EN 50130-4, chap. 8 EN 61000-4-11, ed. 2
EN 50130-4, chap. 9 EN 61000-4-2
EN 50130-4, chap. 10 EN 61000-4-6
EN 50130-4, chap. 12 EN 61000-4-4, ed. 2
EN 50130-4, chap. 13 EN 61000-4-5
EN 61000-4-8
EN 61000-4-9
EN 61000-6-1
EN 61000-6-2
EN 55022, chap. 5 and chap. 6

The product is furnished with CE label, issued in 2007.

As documentation serve the protocols of authorized and accredited organizations:

M0 ČR, Agency for Development of Informatics, Testing Laboratory No. 1158, accredited by ČIA, according to EN ISO/IEC 17025

Assessment of Conformity pursuant to §22 of Act No. 22/1997 Coll. and changes as amended by Act No. 71/2000 Coll. and Act No. 205/2002 Coll.

In Prague, 13 November 2007

Miroslav Hackl
Managing Director

6. WARRANTY CERTIFICATE

Product: OMP 100

Type:

Serial No.:

Date of sale:

A warranty period of 60 months from the date of sale to the user applies to this instrument.

Defects occurring during this period due to faulty production or due to material faults will be eliminated free of charge.

The warranty for quality, function and construction of the instrument applies provided that it was connected and used in compliance with the instructions for use.

The warranty does not apply to defects caused by:

- mechanic damage
- transportation
- intervention of unqualified persons incl. the user
- force majeure
- other unprofessional interventions

The manufacturer performs warranty and post-warranty repairs unless provided for otherwise.



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