

Metran-602-Ex Power Supply

OKP code: 4218



- **Number of channels: 1 or 2**
- **On/off LED indication for each channel**
- **Overcurrent and short circuit protection**
- **No industrial interference**
- **Design: Panel-mounted, DIN-rail mounted**
- **Panel-mounted Power Supply replaces BPD-40-Ex, 2000P-Ex Power Supply as per design and functions.**

Metran-602-Ex Power Supply units are designed to supply Metran-Ex Pressure Transmitters, TSPU-Ex, TSMU-Ex, THAU-Ex Temperature Transmitters with 4-20 mA unified output by stabilized voltage and provide spark protection, as well as convert the signal into 0-5, 4-20, 0-20 mA signals.

SPECIFICATIONS AND PARAMETERS

- Supply Voltage: (220 ⁺²³/₋₃₃) V, (50±1) Hz
- Open-circuit voltage of intrinsically safe circuit: 24 V
- Output Signals: 0-5 mA (Rheat = 2.5 kOhm), 0-20, 4-20 mA (Rheat = 0.75 kOhm)
- Reference Accuracy Limit, max: ±0.1% of output range
- Power Consumption, max: 6 VA
- Dust and Water Tightness: IP30 for panel mounting, IP20 for DIN-rail mounting
- Weight, max: 0.6 kg

EXPLOSION PROTECTION

Explosion protection marking: ExialIC

An integral spark protection barrier is designed to protect the power supply by limiting current and voltage to intrinsically safe values:

- Short circuit current, max: 100 mA at resistance of 240 Ohm minimum of the limiting resistor;
- Resistance of communication line between the power supply and the transmitter, max: 25 Ohm;
- Communication line length, max: 1000 m.

Limiting parameters of an external intrinsically safe electrical circuit per GOST R51330.10-99 are as follows:

$C_0 = 0.1 \text{ mcF}$

$L_0 = 1.5 \text{ mH}$

$U_0 = 24 \text{ V}$

$I_0 = 100 \text{ mA}$

$P_0 = 0.6 \text{ W,}$

C_0, L_0, U_0, I_0, P_0 : max capacity, inductance, output voltage, output power accordingly.

OPERATION CONDITIONS

Climatic stability type: UHL 3 class per GOST 15150 (S3 groups per GOST 12997), for operation at -10 to 50°C of ambient temperature and 30 to 80% of relative humidity within entire operating temperature range.

DELIVERY SET

- | | |
|---|--------|
| 1. Metran-602-Ex Power Supply | 1 unit |
| 2. Product Data Sheet | 1 copy |
| 3. Operation Manual | 1 copy |
| 4. Socket 2RM14KPN4G1V1V* | 1 unit |
| 5. Socket 2RM14KPN4G1V1V* | 1 unit |
| 6. Plug 2RM14KPN4Sh1V1V* | 2 unit |
| 7. DIN-rail NS35/7.5**, m (optional length) | |

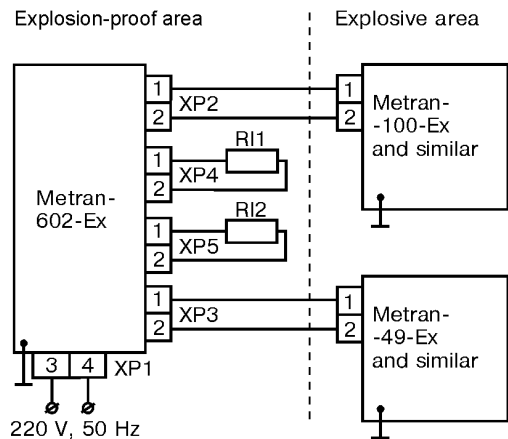
* Delivered for panel-mounted power supply units.

** Delivered for rail-mounted power supply units.

RELIABILITY

Mean time between failures: 120 000 h.
Average service life: 12 years.

EXTERNAL WIRING DIAGRAM



RI1 - 1st channel load;
RI2 - 2nd channel load.

WARRANTY

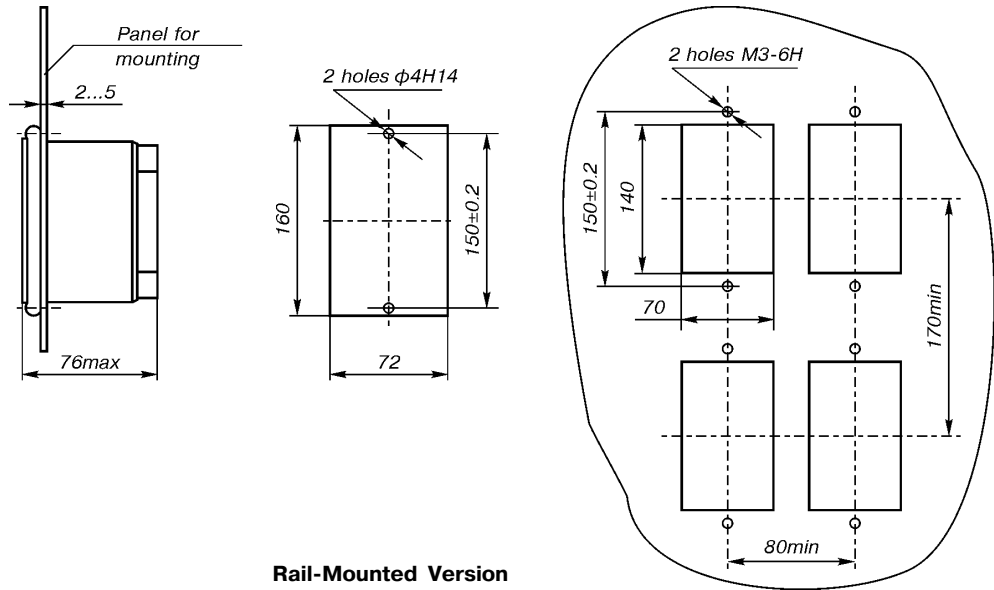
Warranty period: 18 months from the date of commissioning.

ORDERING INFORMATION

Metran-602-Exia - 005 - 1 - 01 - TU...				
1	2	3	4	5

1. Unit type.
2. Output signal code:
005 for 0-5 mA;
020 for 0-20 mA;
420 for 4-20 mA.
3. Number of channels:
1 or 2
4. Mounting:
01 panel mounting
DIN DIN bus mounting
5. Specification: TU 4218-003-51465965-2003.

OVERALL AND MOUNTING DIMENSIONS
Panel-Mounted Version



Rail-Mounted Version

