

Supply unit HRT For 2-wire transmitters

Snap-on mounting

Short circuit and overheating protection

HART communication resistor

Compact

Galvanical isolation

GENERAL

This power supply can energize one or more two-wire transmitters.

Connection of HART transmitters is featured by the built-in communication resistor.

Energization of transmitters in hazardous areas and built-in square root extraxction is not possible.

DESCRIPTION

The power supply is fitted in a dual UNIFLEX snap-on housing. The primary AC voltage is transformed down, rectified and smoothed. Protection of the output circuit against short circuit and overheating is provided. One of the two 24 V outputs has a built-in resistance of 250 Ω , specially designed for supply of transmitters with HART-communication.

TECHNICAL DATA

OUTPUT

Transmitter supply: 24 \lor DC \pm 1 \lor DC Ripple: \le 25 mV_{rms}

Load

$$R_{Load} = \frac{24[V] - U_S}{0.02[A]} [\Omega]$$

R_{load} = lead resistance & load of connected devices.

 U_S = minimum supply voltage of transmitter.

Output current: ≤ 85 mA Short circuit current: ≤ 250 mA

POWER SUPPLY

AC - voltage: 115 or 230 V

Tolerance: +6 -10 % Frequency: 48...60 Hz

Effect of supply

$$I_{Output} = f(U_{input})$$
 approx.1 mA / V

ENVIRONMENTAL CONDITIONS

Temperature limits

Operation: -10...+ 60 °C

Transport & storage: -35... + 85 °C

Relative humidity

≤ 95 %, no condensation

Vibrations

0,7 g 10...100 Hzto LLoyds register test 1

Effect of temperature

$$I_{Output} = f(\vartheta_{Ambient})$$
 approx.- 0,5 mA / K

ELECTROMAGNETIC COMPATIBILITY

Complies with european guideline EN 50 081-1 and 50 082-2 for use within rural and industrial areas.

CE labelled

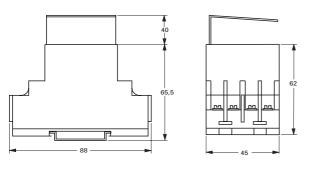
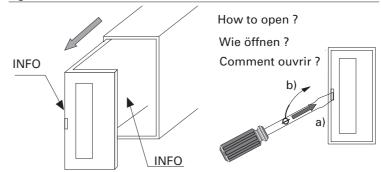


Fig. 2 Information and connections



ELECTRICAL SAFETY

Complies with 73/23/EEC LVD

CE labelled

Isolation voltage: 3,75 kVAC

GENERAL

Mode of Protection

Housing: IP 30 Terminals: IP 10

Electrical connection

Screw terminals

Weight: 0,21 kg

Mounting

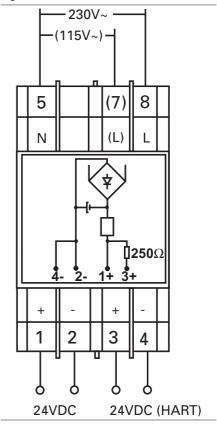
35 mm standard rail to DIN 46 277

Mounting position: not critical

ORDERING DATA

Description	Order-no
Transmitter supply unit TPS HRT	
230 VAC	9404-202-08401
115 VAC	9404-202-08411

Fig. 3 Electrical connections





Deutschland

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