



# EWTR 920

two stage temperature, humidity and pressure controller



## Description

EWTR 920 controllers are devices with two points of intervention and can be used to control temperature (EWTR 920), relative humidity (EWHR 920), and pressure (EWPR 920). Depending on models, they may have an input for thermostatic probes (PTC, Ni100, Pt100, TcJ, TcK, 4...20 mA current), humidity probes (EWHs 280/300/310) or pressure probes (EWPA 007/030). The values measured by the probes are displayed with three or four digits, depending on models. These controllers are available in standard 72x72 mm size with square casing and 230, 115, 24 V~ or 12 V~/-. power supplies.

Analogue input	Range
PTC	-55...150
Pt100-Ni100	-100...600 / -50...650
TcJ-TcK	0...600 / 0...999
EWPA 007/030	0,5...0,8 / 0...30 Bar
EWHs 280/300/310	20...100/0...100/20...100 RH%

**NOTE:** overall range for different kinds of probes (the range may be limited with specific types of cables, tips and sensors). Special probes are available on request.

## Technical Data

Casing: plastic, PC+ABS, V0 self-extinguishing.

Size: front panel 72x72 mm, depth 102 mm.

Mounting: panel-mounting with bracket; 67x67 mm drilling template.

Connections: screw terminals for 2.5 mm<sup>2</sup> leads (one lead only per terminal), which can be disconnected.

Operating temperature: -5...60°C.

Storage temperature: -30...75°C.

Display: 3 or 4 digits, 12.5 mm high.

Data storage: on permanent memory (EEPROM).

Inputs (depending on model): PTC / RTD (Ni100, Pt100) / Tc (J, K) / current (4...20 mA; Ri = 41 Ω) for EWTR 920; EWHs 280/300/310 for EWHR 920 and EWPA 007/030 for EWPR 920.

Main outputs: 2 output on 8(3)A 250V~ SPDT relay or static (SSR) 0/12 V~/40 mA output.

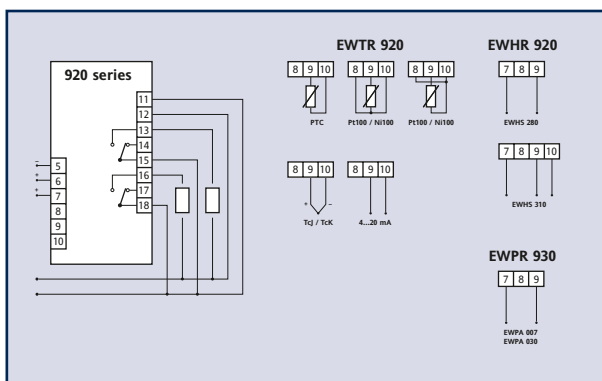
Programmable analogue output (optional): 4...20 mA or 0...5 V, depending on model.

Resolution: 1, 0.1 (a resolution of 5 or 0.5 respectively can also be set).

Accuracy: above 0.5 % of bottom scale.

Power supply (depending on model): 12 V~/±15%; 230, 115, 24 V~ ±10%, 50/60 Hz.

## Wiring Diagram



## Description of Wiring Diagram

- 5-6 Analogue output
- 7-8-9-10 Probe input
- 11-12 Power supply
- 13-15 Relay 1 N.O.
- 14-15 Relay 1 N.C.
- 16-18 Relay 2 N.O.
- 17-18 Relay 2 N.C.

