

# WEIGHING RAIN AND SNOW GAUGE

*t041 TPW*



Solid and liquid precipitation measurement

Integrated auto-diagnostic system

Elimination of the wind vibration

# Description

The TPW series weighing gauge is designed to measure different types of atmospheric precipitation by measuring the weight of the precipitation itself. Whether it is rain, snow, or mixed, it precisely measures the precipitation weight defining both its amount and intensity. The weighing system is protected by an enclosure in order to make the measurement not be influenced by the external environment. Furthermore, the integrated circuit board of the instrument can manage both self-diagnostic operations and processing for the correction of measurement errors due to vibrations caused by wind, dust in the air, temperature fluctuations and other parameters.



## Main Features

- **Filtraggio elettronico dei parametri di disturbo (vibrazioni, polveri in aria, ecc.)**
- **Facile e rapida manutenzione**
- **Assorbimenti elettrici ridotti**
- **Calcolo della durata di precipitazione**

## Technical Specifications\*

### Measurement performance

	TPW204	TPW314	TPW405
Collecting area	200 cm <sup>2</sup>	314 cm <sup>2</sup>	400 cm <sup>2</sup>
Measurement range	1500 [mm]	955 [mm]	750 [mm]
Absolute accuracy	± 0.1 %		
Relative accuracy	0,1		
Maximum rain intensity	120 mm/min		
Resolution	0.001 mm		

### Operating conditions

Temperature	-40 °C ÷ +70 °C
Humidity	0 ÷ 100 %

### Outputs

Pulse	relay contact; 1/0.1/0.01 mm/pulse
RS485-Modbus	precipitation amount [mm]
SDI-12	precipitation amount [mm]

### Power supply and consumption

Voltage supply	8 ÷ 28Vdc
Power consumption	7 mA (average)
Heating supply	12 W / 12 V, 48 W /24 V

### Mechanical specifications

Dimensions	Ø 385x635mm
Protection class	IP65
Weight	~ 11 kg

\*Changes on technical performances can be applied upon request of specific calibration.