Temperature and pressure measuring instrument TDM 51 F

Benefits

- Ideal for measuring a great variety of values and parameters in domestic technology applications
- Pressure and temperature sensors can be connected
- Integrated mains voltage monitoring
- EnOcean®-inside
- EEP (EnOcean® Equipment Profile): Generic Profile (GP)

Application

For measuring pressure and temperature in domestic technology applications such as filling pressure in the heating system, level in fuel oil tanks or cisterns, layer temperature in hot water storage tanks or system temperatures (e.g. flow, return).

Versions

	Part no.
Temperature and pressure measuring instrument TDM 51 F	78089

Blue part no. = in-stock items

Description

The temperature and pressure measuring instrument TDM 51 F features five inputs for Pt 1000 temperature sensors and a RS 485 Modbus connection for digital temperature sensors. The measured data is transmitted to the AFRISOhome gateway HG 01 via an integrated EnOcean® wireless module. The measured data is visualised on the AFRISOhome application. If the measured value is out of range, groups of persons (e.g. owner or janitor) can be notified selectively. TDM 51 F monitors the mains voltage and sends an alarm message in the case of a power outage. EnOcean® wireless technology allows for integration into building control systems.

Technical specifications

Operating temperature range

Ambient:	-5/+55 °C
Storage:	-10/+60 °C

Supply voltage
AC 100 – 240 V

Nominal power
5 VA

Housing
Wall mounting housing made of impact-resistant plastic (ABS)

W x H x D:	100 x 188 x 65 mm
Weight:	430 g
Degree of protection:	IP 40 (EN 60529)

Inputs
1 x Modbus RTU (RS 485)

Measuring range

Temperature:	-100/+300 °C
Pressure:	Depending on sensor used

Accuracy

Temperature:	± 0.5 K
Pressure:	Depending on sensor used

EnOcean® wireless

EEP:	Generic Profile (GP)
Frequency:	868.3 MHz
Transmission power:	Max. 10 mW
Range:	10 – 30 m
Range:	depending on room arrangement and materials in the building

Scope of delivery
- Control unit with EnOcean® wireless module