FT10-RT433-ES
Wireless transmitter for external PT100 cable sensor

FT10-RT433-ES is a wireless transmitter with gland for external Pt100/Pt1000 sensors. The device consists of a radio transmitter module **FT10-RT433** and a measurement module **FT10-ES** and also from a whip-antenna. The design and construction of the device gives the devices high measuring accuracy and stability along with outstanding durability and resistance against adverse environmental conditions. Separately ordered Pt100/Pt1000 sensors can be connected via gland to internal connector. To achieve the best cable sensor accuracy and ease of connection we recommend using 4-wire cable sensors.

The device includes 433.92 MHz radio transmitter and detachable whip-antenna which enables transmissions out of closed steel cabinets and other difficult targets.

The measuring module recommended calibration period is two years.

A radio transmitter module does not need calibration so it stays attached in its original installation place with an antenna.

We offer calibration agreement where we send replacement measurement modules which will be changed without any tools to the places of the measurement modules that are currently in use. After this the measurement modules with old calibration will be sent back to us. This prevents breaks in measurement use that would be caused by calibration and the calibration service is very inexpensive compared to all other solutions. The endurance of the battery is up to five years, but new battery is part of the calibration service. For users in need of extreme accuracy we can offer calibration of the measurement module and the sensor together, when both the measurement module and the sensor need to be sent to us.

The device fulfills the mechanical and measuring accuracy requirements of the **EN 13485** standard. It also conforms to the requirements of the standards **EN 13486** and **EN 12830** where applicable.

Input details	
inputs	Pt100/Pt1000
accuracy	< 0.2°C
input channels	1
measuring range	-200...+600°C (depend on sensor type)

Radio details	
transmission interval	5 s... 5 min
coverage range	open space up to 1000 m

Output details	
output channels	1
outputs	433 MHz radio signal

Connection details	
connector model	Sensor connector
programming	MekuWin or 6790

Power supply	
supply voltage	Battery: 1.5 V AA alkaline
battery life	Over 3 years (80 s transmission interval)

Sensor details	
sensor type	External Pt100/Pt1000
connection method	4 wire

General information	
maximum ambient temperature	60°C
minimum ambient temperature	-30 °C
case material	plastic (PC and ABS+PC)
protection class	IP65
approvals	CE and EN13485
cable glands	2-5 mm sensor cable