

The CDS-Wireless **TC210-T** is an industrial wireless temperature transmitter designed to acquire temperature measurements from type T thermocouples and transmit them wirelessly using either one of the open standards ISA100 Wireless or WirelessHART.

With an outstanding level of accuracy over a wide temperature range, the **TC210-T** delivers valuable thermal data for test and validation, process control, and safety applications.



TC210-T (shown with optional battery pack)

Data acquisition		
Thermocouples	Type T (IEC 60584-1)	Type K available on request
Acquisition channels	10	Standard Omega thermocouple connectors
Measurement accuracy	±0.5°C	Across the entire measurement chain
Operating conditions		
Temperature	-40°C to +85°C	Maximum temperature variation 20°C /h
Pressure	min 10 ⁻⁷ mBar	Suitable for Thermal Vacuum testing
Humidity	max 90% RH	Non condensing
Wireless characteristics		
Operating frequency	2.405 GHz to 2.480 GHz	ISM band license free worldwide
Output power	12 dBm E.I.R.P.	
Range	300 m	Dependent on actual field conditions
Physical layer	IEEE 802.15.4-2011	Aligned with European Radio Equipment Directive (RED)
Radio channels	16	Channel width 5 MHz
Data rate	250 kb/s	Raw data rate, excluding protocol headers
Protocol upper layers	ISA100.11a (IEC 62734)	WirelessHART (IEC62591) available on request
Power		
DC	5V	
Rechargeable battery	4V, 4200 mAh	Optional
Physical characteristics		
Size	119 x 79 x 22 mm	Without optional battery pack
Weight	150 g	Without optional battery pack