

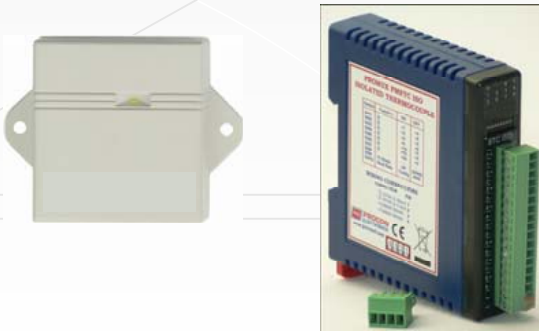
Product Specification Sheet

ECOMM Series

WC21-8TC FFD with 8-channel Thermocouple Module

The WC21-8TC Wireless thermocouple module comes as a 2 Piece set consisting of a WC21 FFD Mesh Node and an 8-channel ModBus RTU Slave input module along with a 4 Conductor Comm/Power cable 40cm long which connects the two devices. Inputs supported are thermocouple types J, K, E, T, N, B, S, R, C, D and G with differential inputs to minimise electrical noise and mains pick-up, and built-in cold junction compensation. It also supports mV inputs. Two versions are available: WC21-8TCISO with, or WC21-8TC without, thermocouple inputs isolated from each other and internal logic circuits.

Physical Characteristics / Dimensions



Operating Temperature -28C to 62.5C
Storage Temperature -40C to 80C
Operating RH 5-95% Non-Condensing
Storage RH 5-95% Non-Condensing

Detailed Specifications			
RF		Full Function Device	
RF Classification	802.15.4 ISM Band Device	Mesh FFD Capacity	75 FFD's
Frequency	2.4 GHz 16 Channels	Line of Sight Range	425 metres
Network Architecture	Star Mesh PAN Coordinator		
Device Classification	Full Function Device		
Transmit Sensitivity	12 dBm		
Receive Sensitivity	-94 dBm		
Module Hardware		Physical	
WC21 FFD Controller	12-24 VDC	Dimensions 16DI module	109 x 96 x 22mm incl. connectors
8TC Module	12-24 VDC	Dimensions WC21 module	75 x 96 x 34mm incl mounting lugs
Mounting - 8TC module	DIN rail	Weight - complete	200g
Mounting - WC21	screw fixing		
Resolution	0.1 C	Certifications	FCC / UL / UR / EC on Components
Drift	100ppm/C typical	Operating temp	-28C to 62.5C
Isolation	1500Vrms between field and logic	Storage temp	-40C to 80C
	350V peak between each TC input	Operating humidity	5% to 95% (non condensing)
CJC error	+/- 0.5C typ after 30 min warm up	Storage humidity	5% to 95% (non condensing)
I/O Module Detail			
WC21 Polling Rate	350 msec		
Minimum Update Interval	10 Seconds		
Maximum Update Interval	3,600 Seconds		
WC21 On Board I/O	Not Functional when 16DI connected		
Input Resolution	32 bit		