

Specifications (continued)

SPECIFICATION	DESCRIPTION
Input and Output	
Discrete input	8 digital I/O (1–4 configurable as PI or PO) On-state voltage: <2.1 Vdc Wetting current: 5 mA Max. I/P pulse rate—DI 1/2: 50 kHz, DI 3/4: 1 kHz Max. I/P pulse width—DI 1/2: 10 µs, PI 3/4: 0.2 ms
Discrete output	8 digital I/O (1–4 configurable as PI or PO) On-state voltage—DO max.: 30 Vdc Wetting current—DO max.: 200 mA Max O/P pulse rate—PO max. rate: 1 kHz
Analog inputs	4 AI (2 differential, 2 single ended) Current range: 0–24 mA Current resolution: 14 bits Accuracy (current): 0.1% Voltage input range: AI 1/2: 0–25V, AI 3/4: 0–5V Voltage resolution: 14 bits Accuracy (voltage): 0.1%
Analog output	2 AO (sourcing) Current range: 0–24 mA Current resolution: 13 bits Accuracy (current): 0.1%
Ethernet Port	
Ethernet port	10/100Base-T, RJ-45 connector, IEEE 802.3
Link activity	Link, 100Base-T via LED
Serial Port	
RS-232	EIA-562 (R-45 connector)
RS-485	2-pin terminal block, non-isolated ☉
Data rate (bps)	1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 76800, 115200, 230400
Serial settings	7/8 data bits, stop/start/parity (configurable)
Protocols and Configuration	
System address	ESSID, 1 to 31-character text string
Protocols supported	TCP/IP, UDP, HTTP, FTP, TFTP, TELNET, Modbus, Modbus TCP
User configuration	All user-configurable parameters via HTTPS
Configurable parameters	Unit details, I/O mappings and parameters, radio settings (for more information, refer to the user manual) Modbus TCP/ RTU gateway Embedded Modbus master/slave for I/O transfer
Security	Data encryption, 128-bit AES, secure HTTP protocol
LED Indication and Diagnostics	
LED indication	Power/OK, TX/RX, RS-232, RS-485, digital I/O, analog I/O status
Reported diagnostics	RSSI measurements (dBm), connectivity information/statistics, system log file
Network management	Optional network management system
Compliance	
EMC	FCC Part 15; EN 301 489; AS 3548
RF (radio)	FCC Part 15.247; EN 300 220; AS 4268.2; RFS29 NZ
Hazardous area	UL/CSA Class I, Division 2; ATEX; IECEx Na IIC
Safety	IEC 60950 (RoHS compliant)
UL	UL listed
General	
Size	5.91" x 7.09" x 1.38" (180 mm x 150 mm x 35 mm)
Housing	IP20 rated high-density thermoplastic
Mounting	DIN rail
Terminal blocks	Removable, max. conductor 12 AWG 0.1 in. ² (2.5 mm ²)
Temperature rating	–40 to +140°F (–40 to +60°C)
Humidity rating	0–99% RH noncondensing
Weight	1.1lb (0.5 kg)

SPECIFICATION	DESCRIPTION
Power Supply	
Nominal supply	10.8–30 Vdc, under/over voltage protection
Average current draw	220 mA @ 12V (idle), 110 mA @ 24V (idle)
Transmit current draw	500 mA @ 12V (1W), 250 mA @ 24V (1W)
Note: Specifications are subject to change.	
☉ Country-specific configuration (specified at time of order)	☉ 18 channels New Zealand
☉ 900 MHz ISM band	☉ Typical maximum line-of-sight range
☉ 869 MHz ISM band (Europe)	☉ Maximum distance 3937' (1200m)
	☉ Optional, see 915U-TCP datasheet

Accessories

PRODUCT CODE	DESCRIPTION
Soft Feature Keys	
915U-TCP	Modbus TCP/RTU gateway feature key
915U-LOG	Data logging feature key
Interface	
915U-TCADP	T-type TCP thermocouple adapter, uses two analog inputs and two analog outputs
Antennas - 900 MHz	
DG800-1/5	Whip antenna, SMA male, angle bracket, –2 dBi gain, 3' (1m) or 16.4' (5m) coaxial cable
DG900-1/5	Whip antenna, SMA male, angle bracket, –2 dBi gain, 3' (1m) or 16.4' (5m) coaxial cable
CFD890EL	Dipole antenna, SMA male, mounting bracket, 2 dBi gain, 16' (5m) coaxial cable
SG900EL	Collinear antenna, N-type female, 5 dBi gain
SG900-6	Collinear antenna, N-type female, 8 dBi gain
Cables	
ETH-C5A	Ethernet cable, 6' (1.8m), straight through, RJ-45 to RJ-45
SER-RJ45	Configuration cable, RS-232 serial, DB-9 female to RJ-45
Surge Diverters	
CSD-SMA-2500	SMA surge diverter for use with CC10/CC20-SMA
CSD-N-6000	Coaxial surge diverter, bulkhead N female to N female
MA15D1SI/D2SI	Power supply surge diverter, 110 Vac/15A or 240 Vac/15A
IOP32D	Signal surge diverter, 2 x 2-wire/1 x 4-wire
Power Supplies	PS-DINAC-12DC-OK DIN rail power supply, 100–250 Vac, 12 Vdc/2.5A
PSG60E	DIN rail power supply, 85–264 Vac, 24 Vdc/2.5A TD032034EN

Notes: More accessories are available for this product including antennas, cables, and mounting brackets. Refer to our Website for details.

Ordering

PRODUCT CODE	DESCRIPTION	FREQUENCY	RF POWER
915U-2	Wireless mesh I/O	902–928 MHz	1W
915U-2	Wireless mesh I/O	869.525 MHz	500 mW
915U-2	Wireless mesh I/O	869.875 MHz	5 mW
915U-2XM	Wireless mesh I/O + 500 MB flash memory ☉	902–928 MHz	1W
915U-2XM	Wireless mesh I/O + 500 MB flash memory ☉	869.525 MHz	500 mW
915U-2XM	Wireless mesh I/O + 500 MB flash memory ☉	869.875 MHz	5 mW

Note: Available RF power and frequency may vary depending on country of application.

☉ Additional memory for logging of data and administration events



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