



**DX99 2.4 GHz Nodes for Hazardous Locations, ATEX Zone 0 & 20, compatible with DX80 Gateways out of Ex Area**

Model	Discrete IN	Modbus IN	Analogue IN	Power (18 V boost)	Housing
DX99N2X1S2N0M2X0D2	2x PNP-NPN	/	2x 0-20 mA	Internal Battery	Metal
DX99N2X2S2N0M2X0A2	2x PNP-NPN	/	2x 0-20 mA	DX81H battery box	Polycarbonate
DX99N2X1S2N0T4X0D0	2x PNP-NPN	/	3x Thermocouple, 1x Thermistor	Internal Battery	Metal
DX99N2X2S2N0T4X0A0	2x PNP-NPN	/	3x Thermocouple, 1x Thermistor	DX81H battery box	Polycarbonate
DX99N2X1S0N0R4X0D0	/	/	4x 3-wire PT100 RTD	Internal Battery	Metal
DX99N2X2S0N0R4X0A0	/	/	4x 3-wire PT100 RTD	DX81H battery box	Polycarbonate
DX99N2X1S1S0V2X0D4	1x NPN	1x RS485	1x 0-5 VDC or 1x 0-10 VDC	Internal Battery	Metal
DX99N2X1S1N0M3X0D5	1x NPN	/	1x 0-20 mA (29 s warm-up time) or 2x 0-20 mA, 1x 3-wire RTD (standard warm-up)	Internal Battery	Metal

## DX85

### Extension I/O



**DX85 Remote I/O Extension Unit (only for Gateways with Modbus RTU Communication)**

Model	Discrete I/O		Analogue I/O	
	IN	OUT	IN	OUT
DX85M-P8	12x PNP (I+O = 12 max)	12x PNP (I+O = 12 max)	/	/
DX85M4P4M2M2	4x PNP	4x PNP	2x 0-20 mA	2x 0-20 mA
DX85M0P0M4M4	/	/	4x 0-20 mA	4x 0-20 mA



## FlexPower Sensors

**FlexPower sensors for use with FlexPower Nodes or FlexPower Nodes with Serial Interface**

Model	Description	Model	Description
M12FTH4Q	Serial Temperature/RH sensor calibrated ± 2%		
BWA-ACC-SEN-SDI	Acclima SDI-12 soil moisture transducer	SM312LPQD-78447	Low power MINI-BEAM, 5 V, polarised retroreflective, 3 m range
QS30WEQ	Low power QS30 emitter, 3.6-5.5 VDC, 30 m maximum range	SM312DQD-78419	Low power MINI-BEAM, 5 V, diffuse, 38 cm range
QS30WRQ	Low QS30 power receiver, 3.6-5.5 VDC, 30 m maximum range	QT50ULBQ6-75390	Low power QT50U, ultrasonic, 8 m range

## More Housing options



L model without LCD

IP20 housing with external terminal blocks  
ATEX Zone 2 certification



IP54 housing with internal battery

Solutions available for ATEX Zone 1 with 24 VDC and Ex d enclosure



## Accessories

### Antenna Cables

RP-SMA to RP-SMAF Bulkhead (RG58 cable loss: 1.05 dB/m)	
BWC-1MRSFRSB0.2	0.2 m cable
BWC-1MRSFRSB1	1 m cable
BWC-1MRSFRSB2	2 m cable
BWC-1MRSFRSB4	4 m cable
RP-SMA to N Male (LMR200 cable loss: 0.56 dB/m)	
BWC-1MRSMN05	0.5 m cable
BWC-1MRSMN2	2 m cable
N Male to N Female (LMR400 coaxial, cable loss: 0.22 dB/m)	
BWC-4MNFN3	3 m cable
BWC-4MNFN6	6 m cable
BWC-4MNFN15	15 m cable
BWC-4MNFN30	30 m cable

### Antennas – Indoor

Model	Type	Description
BWA-202-C	RP-SMA Male	2 dBi antenna indoor
BWA-205-C	RP-SMA Male	5 dBi antenna indoor
BWA-207-C	RP-SMA Male	7 dBi antenna indoor


### Antennas – Outdoor

Model	Type	Description
BWA-206-A	N Female	6 dBi antenna outdoor
BWA-208-A	N Female	8.5 dBi antenna outdoor
Model	Description	
BWC-LFNBMN-DC	Bulkhead, N Type – Surge Suppressor	

### Connectors for DX80PM Top & Bottom

1/2-inch NPT Hub Entrance	
Model	Description
BWA-QD5.5	M12 connector 5-pin
BWA-QD8.5	M12 connector 8-pin
BWA-QD12.5	M12 connector 12-pin

### Converter cable for User Configuration Tool

Model	Description
BWA-HW-006	RS-485 to USB adapter, 1 m for DX80 IP67
MQDMC-401	RS-485 to USB adapter, 0.5 m for DX80 IP20
	The User Configuration Tool uses a USB to RS-485 converter to connect a standard Gateway or Data Radio Master to a USB connection on a computer.

## Power options

### Power Supply, Battery Box, Solar Panel

Model	Description
PSDINM-24-10	DIN-mountable Power Supply, input 85...264 VAC; output 24 VDC, 1 A
PSB4MK-24-10	Power Supply, input 85...264 VAC; output 24 VDC, 1 A; IP66 enclosure
DX81	1 Battery
DX81P6	6 Batteries
DX81H	1 Battery for DX99 – ATEX
BWA-SOLAR-001	Solar Panel Kit

