OleumTech[™]

DISCRETE TRANSMITTER



PRODUCT HIGHLIGHTS

- Ideal Solution for Dry Contact Switches and Monitoring Alarm Conditions
- · Wirelessly Monitors On/Off Status
- · High Performance Wireless Connectivity
- Provides 2 Inputs for Dry Contact Relay or Open-Drain Output Devices
- Seamless Integration with Third-Party Devices
- Direct or Pipe-Mount Versions for Integration Flexibility
- License-Free 900 MHz/2.4 GHz Band, Secure Data Transmission
- Intrinsically Safe for Use in Hazardous Locations
- Self-Contained Battery Operation
- · Easy-to-Install, Configure and Use
- User-Friendly BreeZ® Configuration Software



SM5000-DS1 / SM5000-DJ1





APPLICATIONS

• Oil & Gas, Pipeline, Petro-Chem, Water/Wastewater, Utilities, Irrigation Systems, Mining, SCADA Systems, On/Off Status, 3A Sanitary, Pharmaceuticals, Biotechnology, and Much More























WIRELESS SENSOR NETWORK

- Reliable, Robust Wireless Performance
- · Eliminates Costly Conduits and Wiring
- Monitor / Control Process Conditions 24/7
- License-Free ISM Band, FSK & FHSS Technologies
- Reduces Labor, Installation and Maintenance Costs
- Helps Meet Regulatory Requirements
- Industrial Strength Performance & Durability

Wireless Discrete
Monitoring

2 Discrete Inputs Multi-Vendor Compatible

Direct or Pipe-Mount Version Exception Reporting

902-928 MHz ISM License-Free Band

Self-Contained
Battery Operation

Up to 10-Year Battery Life

Class I; Division 1

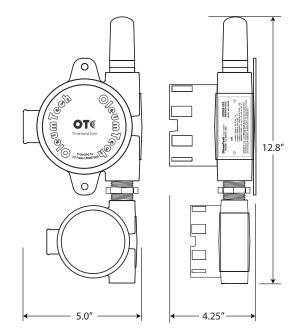


Technical Specifications

DISCRETE TRANSMITTER

HARDWARE FEATUR	ES
Device Functionality	· Discrete Input Wireless Transmitter
Embedded Controller	· Ultra-Low Power RISC Microcontroller with Internal FLASH
	(Field Upgradeable)
Device Interface	· Standard RS232 Serial
I/O Interface	· 2 Inputs for Dry Contact Relay or Open-drain Output Devices
Power Source	· Self-Contained, Internal 3.6 V Lithium Battery
Internal Battery Life	· Up to 10 Years, Based on Usage
Self-Diagnostics	$\cdot \textbf{Contains Comprehensive Self-Checking Software and Hardware for} \\$
	Continuous Monitoring of Operation
WIRELESS COMMUNI	CATIONS
Type: 900 MHz	· ISM Band, FSK (Frequency-Shift Keying),
	FHSS (Frequency Hopping Spread Spectrum)
Frequency	· 902 to 928 MHz (North America); 915-928 MHz (Aus, Int'l)
Data Rate	· 9600 bps / 115.2 kbps
Output Power	· 1 mW or 10 mW
Receiving Sensitivity	·-110 dBm @ 9600 bps or -100 dBm @ 115.2 kbps
Range	· Up to 7500 Feet (2.3 km) with Clear Line of Sight
CERTIFICATIONS & C	OMPLIANCE
FCC FC	· FCC Part 15
Industry Canada (IC)	·ICES-003
Safety Ex C E	· Class I Division 1, Groups A, B, C, D T3C
	· Class 1 Zone 0 AEx ia IIC T3 Ga; Class 1 Zone 0 Ex ia IIC T3 Ga
	· ATEX: Sira 13ATEX2142X; Ex ia IIC T3 Ga; II 1 G
	· IECEx: SIR 13.0054X; Ex ia IIC T3 Ga
MECHANICAL SPECIF	FICATIONS
Dimensions	· 5" (W) x 8.75" (H) x 4.25" (D) / 127 mm (W) x 222 mm (H) x 108 mm (D)

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BASIC NETWORKING DIAGRAM			
SCADA			
\$			
PLC/RTU/EFM	1		
*	100		
GATEWAYS	OT (100 100 100 100 100 100 100 100 100 1		
	and the second second second		
Wireless Range of Up to 7500 ft.	•		
TRANSMITTERS			
FIELD ASSETS	0		
FILLD ASSETS	^		
	2 Discrete Inputs		



Dim. with Junction Box -5" (W) x 12.8" (H) x 4.25" (D) / 127 mm (W) x 325 mm (H) x 108 mm (D)

Package Dimensions -10.25" (W) x 14" (H) x 6.5" (D) / 260 mm (W) x 356 mm (H) x 165 mm (D)

Weight -Net: 2.75 lbs / 1.4 kg; Packaging: 4.75 lbs / 2.2 kg

Weight with Junction Box -Net: 4.75 lbs / 2.1 kg; Packaging: 6.5 lbs/ 2.9 kg

Mounting Hardware · Direct or Pipe Mount

Hardware Connection · W/O Junction Box: 3/4" NPT Male; W/Junction Box: 3/4" NPT Female

Enclosure Casing Material . Type 4X Aluminum; IP66

GENERAL SPECIFICATIONS

· Ambient Temperature (Class I; Division 1): -40 °F to 158 °F (-40 °C to 70 °C)

Operating Conditions · Ambient Temperature (Non-Hazardous Applications): -40 °F to 185 °F

(-40 °C to 85 °C)

· Humidity: 0 to 99 %, Non-Condensing

Warranty · 2-Year Parts and Labor

Country of Origin · Made in USA

ORDERING INFORMATION

Model Number(s) · 900 MHz: SM5000-DS1, SM5000-DJ1 (with Junction Box)

Wirelessly Connects To · Gateways: Base Unit (WM2000-002) or DH2 (SR5000-DH2)



SM5000-DS1 / SM5000-DJ1

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