LOMT0404 Oracle Data Flameproof Wi-Fi Access Point IEC Ex Cable Gland 9mm to 11.9mm

The LOMT0404 model Wi-Fi Oracle Data is an industrial, flameproof (Ex d) Wi-Fi Data Transceiver Module designed for reliable, high-speed data access in underground mining applications.

The LOMT0404 model is suitable for applications requiring IEC Ex flameproof certification.

This LOMT0404 model supports data and power cable with O.D. range of 9 to 11.9 mm. Pempek Gland Part Number: CWR02137

Deployment-ready Wi-Fi solution for underground mining

No external antenna cable required

Antenna is built into the housing of the product

Flexible power supply options (PoE or 24VDC)

Single gland entry for power and data cable

Simple way to add Wi-Fi connectivity

Cost effective (one product solution)

Easy maintenance

Easy configuration

Heavy Duty Enclosure: Self-contained, certified, flameproof (Ex d) housing, stainless steel engraved facia

Wi-Fi Compliance: IEEE 802.11 b/g (2.4GHz)

Power Supply: 24VDC or PoE (IEEE 802.3af) (5W Max)

Ambient Temperature: -10°C to +60°C

Ingress Protection: IP65

Default Cable Gland: 9 to 11.9 mm O.D.

Fasteners: M6 x 50mm x 4



Material

Enclosure is free machining brass. Enclosure retainer is stainless steel. Radome is Teflon.

Mass: 7.5kg (16.5lb)

Typical Application

- Underground mining vehicles
- Longwall face equipment
- Telemetry relay networks
- Mesh networks

Datasheet-LOMT0404

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Electrical Characteristics

Supply		
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Supply	PoE or 16-48VDC	
Power Method	PoE (Data pairs; Spare pairs) / External +24V DC	
Wattage MAX	5W	
Radio Module		
Frequency	ISM ^{2.4GHz}	
Deviation	+-20KHz	
Transmit Power	Programmable up to +26dBm	
Channels Spacing	125kHz	
Modulation	OFDM	
Range MIN	200 metres "Line of Sight"	
Range MAX	1000 metres "Line of Sight"	
Data Integrity	CCITT CRC (16 Bit)	
Bandwidth	250KHz / 3.0MHz @ 115Kbs / 1.5Mbs	
Antenna	Internal Passive Loop Antenna	
Classification	Transceiver	
Bit Rate	1Mbit 54Mbps	
Receive Sensitivity	-97dBm @ 1Mbps	
Communications		
Baud	115Kbs / 1.5Mbs RS-422	
Format	8N1	
CRC	CCITT 16-bit	
Frame	Packet Oriented, Bit Masks	
Throughput	T.B.A.	
Environmental		
Operating Temperature	Minus -20°C + 50°C	
Temperature Class	Т6	
Ingress Protection	IP65	

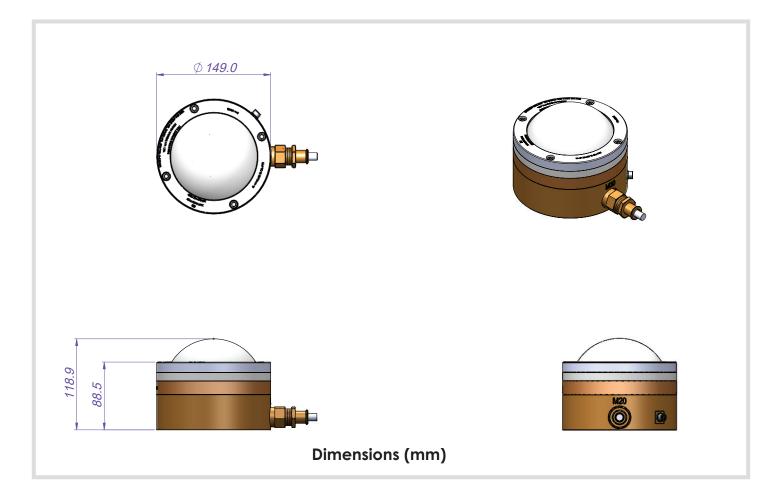
*Figure cited on usage rate equaling 16 hours per day, 6 days per week, 52 weeks per year where failures are due to manufacturing.

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Wiring Specification

PIN	Connector 19mm Ex id Gland Description	Signal
1	24VDC Supply	24VDC Supply
2	24VDC Supply Return	24VDC Supply Return
3	RS-422 TX+	Communications
4	RS-422 TX-	Communications
5	RS-422 RX+	Communications
6	RS-422 RX-	Communications

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