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Connected Extended Series[®] **Breathers** Take a proactive approach to water ingression with the market's first connected and most accurate breather.



Ordering Codes				Module Type [Box 1]		Breather Model [Box 2]	
	-		Code	Description		Code	Description
DC			IL	Wireless			
	BOX 1	BOX 2	IL-M8	Wired		EX-4	Extended Series®
	BOX I	BOX 2			ʻ L		

Breather Specifications

MATERIALS & COMPONENTS:

- Filter Media: Polyurethane, polyester
- Hydrophilic Agent: Silica gel
- All Other Materials: Polycarbonate, nylon, polypropylene, PVC, Buna-N, silicon, EPDM

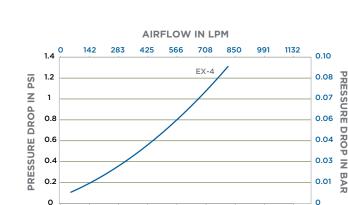
CHEMICAL COMPATIBLITY:

Compatible with all mineral oils, most synthetic oils and diesel (Contact Des-Case technical support for chemical compatibility inquiries)

PERFORMANCE SPECIFICATIONS:

Product Specifications	EX-4					
Airflow at 1psid	24cfm / 680lpm					
Filter Efficiency	3 µm absolute ($\beta_3 \ge 200$)					
Temperature Range	-4°F to 130°F / -20°C to 54°C					
Water Adsorption Capacity (Maximum Water Retention)	27fl. oz / 798ml					
Application Sizing Recommendations						
Gearbox / Storage Tank	1000gal / 3785L					
Hydraulic Reservoir	400gal / 1514L					
Suction / Return Rate	180gpm / 680lpm					

PLEASE NOTE: This is intended as a general guideline for sizing only; other considerations, such as: humidity level, frequency of air flow, ambient temperatures, and chemical compatibility are very important in sizing a breather properly. Larger applications and special circumstances typically require the most thorough analysis. Please contact Des-Case for assistance in sizing a breather.



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AIRFLOW IN CFM

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AIRFLOW:

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- Advantages:
 - Monitor critical assets 24/7
 - Extend breather life by up to 20%
 - Monitor difficult to reach locations
 - Proactive diagnostic tool
 - Access data anywhere in real time
 - Shorten lube routes

Typical Industries:

- Wind Energy
- Storage
- Pulp & Paper
- Mining

Aviation

- ManufacturingPetrochemical
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Wireless Module

WIRELESS MODULE MATERIALS & COMPONENTS:

- Casing: Polycarbonate, Steel (ball plunger)
- Cap: Thermoplastic elastomers (TPE), Steel (screws)
- Circuit Board: LED lights, FR4 Fiberglass
- Batteries: 1.5V alkaline AAA (Manganese Dioxide, Zinc, Potassium Hydroxide, Graphite)

MODULE BATTERY & POWER:

- Supply Source: Three AAA Batteries (each rated 1.5 V DC, Max 1200 mAh)
- Supply Voltage: 4.5 V DC
- Operational Current Rating: 30 mA
- Life Expectancy: 2 years (use and temperature dependent)

MODULE ENVIRONMENT:

- 13.56 MHz RFID (Module & Sensor-board Communication)
- Intended for indoor and outdoor use
- Altitude up to 5000 meters
- Maximum Relative Humidity: 100% at up to 130°F (54°C)
- Dustproof / Waterproof (IP66)
- Hazardous Ratings: Not rated for hazardous locations
- FCC, CE, Reach, RoHS, Anatel

CONNECTIVITY / DATA OUTPUT:

- 2.402 2.480 GHz Bluetooth 4.0 Low Energy
- Communication Range: up to 100ft (30m) line of sight

DEVICE COMPATIBILITY:

Android

- Bluetooth 4.0 and higher
- Android OS 5.0 and higher

Apple

• iOS 10.0 and higher

DATA STORAGE:

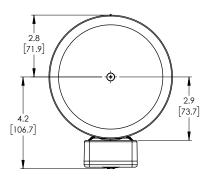
- Data readings every 60 minutes
- Stores 365 days of hourly data points

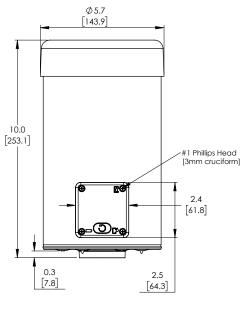
APP DOWNLOAD:

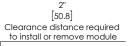


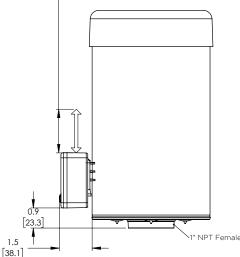
DC-IL-EX-4 DIMENSIONS

Note: All dimensions are in inches/[mm]









Wired Module

WIRED MODULE MATERIALS & COMPONENTS:

- Casing: Polycarbonate, Steel (ball plunger)
- Cap: Thermoplastic elastomers (TPE), Steel (screws)
- Circuit Board: LED lights, FR4 Fiberglass
- M8 Connector: Polyamide 67 GF30, Silicone and Nickel Plated Copper Alloy

WIRED MODULE POWER:

- Supply Voltage: 9-28 V DC
- Operational Current Rating: 30 mA

WIRED MODULE ENVIRONMENT:

- 13.56 MHz RFID
- (Module & Sensor-board Communication)
- Intended for indoor and outdoor use
- Altitude up to 5000 meters
- Maximum Relative Humidity: 100% at up to 54°C (129°F)
- Dustproof / Waterproof (IP66)
- Hazardous Ratings: Not rated for hazardous locations
- FCC, CE, Reach, RoHS

CONNECTIVITY / DATA OUTPUT:

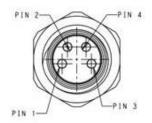
- A Coding M8, 4 Pin Male
- Serial: RS485 Half Duplex

DATA STORAGE:

- Data readings every 60 minutes
- Stores 365 days of hourly data points

POWER / DATA CABLE:

- 4 Position Connector with wire leads x 3 m Connected Breather Cable Assembly (sold separately)
- Standard: IEC 61076-2-104



(A Coding - M8, Male 4 Pin)

Pin 1	Brown	9-28V DC						
Pin 2	White	TXA (Low)						
Pin 3	Black	DC Reference						
Pin 4	Blue	TXB (High)						
(Mark State)								

DC-IL-M8-EX-4 DIMENSIONS

Note: All dimensions are in inches/[mm]

