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



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

Breather Specifications

MATERIALS & COMPONENTS:

accurate breather.

- Filter Media: Polyurethane, polyester
- Hydrophilic Agent: Silica gel

PERFORMANCE SPECIFICATIONS:

• All Other Materials: Polycarbonate, nylon, polypropylene, PVC, Buna-N, silicon, EPDM

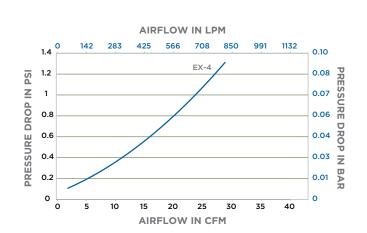
CHEMICAL COMPATIBLITY:

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

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

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.

AIRFLOW:



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

CONNECTIVITY / DATA OUTPUT:

- 2.402 2.481 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:

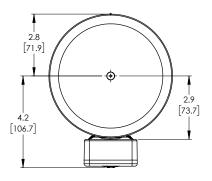
- Data readings every 60 minutes
- Stores 365 days of hourly data points

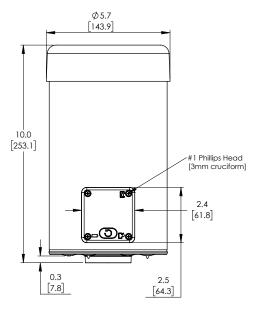
APP DOWNLOAD:

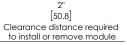


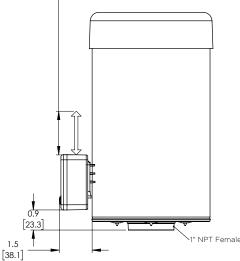
DC-IL-EX-4 DIMENSIONS

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 (130°F) Dustproof / Waterproof (IP66)
- Hazardous Ratings: Not rated for hazardous locations
- FCC, CE, Reach, RoHS

CONNECTIVITY / DATA OUTPUT:

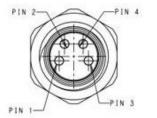
- A Coding M8, 4 Pin Male
- RS485 Half Duplex (Modbus)

DATA STORAGE:

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

POWER / DATA CABLE:

- 4 Position Connector with wire leads
- 3 m Connected Breather Cable Assembly (sold seperately)





(A Coding - M8, Male 4 Pin)

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

DC-IL-M8-EX-4 DIMENSIONS

Note: All dimensions are in inches/[mm]

