

Chesterton Connect™ Humidity Link

Increase Reliability with Moisture Monitoring

The Chesterton Connect Humidity Link offers real-time monitoring of humidity levels in hydraulic oils, lubricating oils, and compressed air systems. By detecting moisture before it leads to corrosion, oxidation, or reduced lubrication efficiency, this sensor helps prevent unplanned downtime and costly equipment failures. The sensor is battery-powered and features 1/2" FNPT fittings for easy in-line installation. Utilizing the Chesterton Connect™ Gateway, the Humidity Link displays the measured parameters in the Chesterton Connect™ Cloud, facilitating historical data trends and 24/7 notifications when user-defined thresholds are exceeded.

Applications

- Gearboxes and Motors: Essential for monitoring oil quality in critical machinery.
- Industrial Equipment — Airlines: Ideal for use in environments where equipment reliability is crucial.
- Seal Barrier Fluid Systems: Monitoring humidity levels to maintain the integrity of the fluid and ensure optimal sealing performance.

SPECIFICATIONS

I2C Link Operating Parameters

Housing Material	Polycarbonate with UV inhibitor
Magnet	NdFeB, Grade N42, 8.68 lb pull force
Mounting	Magnet or optional cradle
Battery	CR2477X-HE lithium manganese dioxide non-rechargeable battery
Lifetime	2+ years at ambient temperature
Power	Optional DC power accessory cable assembly
Wireless	Bluetooth® Low Energy 5.0
Interface	Push button for activation, LED feedback
Electrical Connection	5 position female M12, A code, PVC overmold
Certifications	IP66, FCC, IC, CE, RoHS

Humidity Sensor Operating Parameters

Housing Material	Stainless steel 1.4571
Process Connection	M14 x 1.5
Humidity Range	0% – 100% RH
Operating Temperature Range	-40°C – 120°C (-40°F – 248°F)
Accuracy	+/- 3% RH @23°C (73 °F), +/- .2°C (+/- .36°F)
Repeatability	+/- .2% RH, +/- .1°C (+/- .18°F)
Resolution	.03% RH, .015°C (.027°F)
Hysteresis	< +/-1% RH @23°C (73°F)
Communication	I ² C digital output
Cable Length	20 inches
Electrical Connection	5 position male M12, A code
Fluid Compatibility	Common mineral oils, ester oils, air



Chesterton
Connect™

Advantages

- **Early detection of issues:** Helps identify potential issues before they lead to equipment failure.
- **Improves maintenance operations:** Provides critical insights to optimize maintenance schedules and actions.
- **Easy installation and configuration:** Simplifies setup with multiple mounting options.
- **Secure data access:** Ensures that your data is encrypted and accessible through secure platforms.
- **Versatile Monitoring:** Offers multiple monitoring functions in one compact device. Requires Chesterton Connect Gateway.

Product Order Number: 435772

Contents:

- Chesterton Connect Humidity Link with 1/2" FNPT Tee-Fitting



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Since its founding in 1884, A.W. Chesterton Company has successfully met the critical needs of its diverse customer base. Today, as always, customers count on Chesterton solutions to increase equipment reliability, optimize energy consumption, and provide local technical support and service wherever they are in the world.

Chesterton's global capabilities include:

- Servicing plants in over 113 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

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