



Packaged Gas Product Line

Technical Service Bulletin

Upgrade to NEW Cyl-Tel[®] Gen 4 Liquid Level Gauge

Date: March 31, 2014

Issue: To introduce the new Cyl-Tel Gen 4 Liquid Level Gauge, and to identify improvements to the product.

Models Affected: All Cyl-Tel III units with AST sensors.

Description: In an effort to improve the accuracy of the liquid level reading and power up time of the sensor, Chart is pleased to announce the release of the Cyl-Tel Gen 4 Liquid Level Gauge. The Gen 4 will offer a variety of improvements and changes to the Cyl-Tel 3.

1. The latest version of the Brass Block (Motorola Freescale) sensor has a range of 0-7.25 psig. This will lend a higher degree of accuracy to the Perma-Cyl[®] Storage System product line over the current AST sensor with a range of 0-15 psig. The smaller scale increases the accuracy by utilizing a wider range of the sensor's output.
2. The Gen 4 sensor will offer a much improved temperature compensation range down to -30°C. This will improve the performance of the gauge in the coldest of temperatures.
3. The sensor is backward compatible to both the Cyl-Tel 3 and Cyl-Tel 2 faces. No new face will be needed in order for the sensor to be replaced.
4. The new Brass Block has a much improved response time. This means that, in addition to a much more stable output, the Brass Block will use less battery power to send a signal. This will not only prolong the life of both the batteries in the face of the Cyl-Tel, but also the battery life of the cellular and RF transmitters. It will also be compatible with RF telemetry systems and provide much better functionality when used with cellular interface telemetry systems.



AST



Sensor Freescale Sensor in
Brass Block Housing



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Extended Two-year Warranty: Chart is happy to announce that this new sensor will carry an Extended Two-year Warranty. This is a one-year improvement over the warranty on the current AST sensor. Any existing AST sensors that prove to be non-operational can be replaced with the new Brass Block sensor. The procedure to have a faulty sensor replaced is as follows:

1. Contact Chart Customer service at 1-800-400-4683 to order new Gen 4 replacement sensor.
2. When the defective components are returned you receive full credit.
3. Chart will cover shipping on the Gen 4 parts only.

New Part Numbers: The new part numbers for the Brass Block are as follows:

P/N 20786601	Cyl-Tel Gen 4 Brass Block (complete)
P/N 20786602	Cyl-Tel Gen 4 Brass Block w/Blank Face
P/N 13740770	Brass Block Sensor Assembly
P/N 14450811	Data Online Lid Kit for Brass Block

For customers that are using the AST sensor with the DOL face (lid kit), the new brass block sensor is not compatible with the same face that is used for the AST sensor. A new DOL face will need to be ordered using Chart P/N 14450811. More information will follow on procedures currently being developed where these compatibility changes may be able to be made in the field without the need to order a completely new DOL lid kit.

Chart's continuous attention to product improvement and customer satisfaction has resulted in this design modification. If you have concerns or questions relative to this action, please contact your Chart Customer Service Representative at (800) 400-4683. Thank you for depending on Chart to provide high product quality and service.

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