

# American Magnetics, Inc.

Excellence in Magnetics  
and cryogenics since 1968



## Model 176 Industrial Two-Wire Cryogenic Liquid Level Transmitter

The CE approved **Model 176** is an advanced liquid level transmitter, which provides accurate and reliable continuous level indication of virtually any liquid in harsh industrial environments. The **Model 176** operates by measuring sensor capacitance, which is directly related to the liquid level in the vessel.

The **Model 176** is equipped with a 2-line by 8-character menu driven display and a 3-button for set-up and calibration. The enclosure body is light gray in color (opaque) polycarbonate resin<sup>1</sup> and the cover is clear polycarbonate resin<sup>1</sup>.

The **Model 176** incorporates AMI's ProxCal function. This allows a partial length calibration of the probe to be translated into a full-length calibration. It also allows a calibration in one liquid to be translated into an approximate calibration for a different operating condition (pressure, temperature, etc.) or even an entirely different liquid.

1. Flame Retardant & UV Stabilized



## Model 151 Hand-held/portable Liquid Helium Level Instrument

The **Model 151** is a lightweight, dust proof/waterproof, hand-held meter for use with liquid helium (LHe) storage dewars on loading docks or in storage rooms, or in remote LHe level operations where line power is unavailable or inconvenient.

The instrument has several features that are incorporated into the instrument to facilitate LHe transfers. These include a pressure monitoring port that can be used to monitor the supply or target dewar pressure while simultaneously monitoring target LHe level. A pair of banana jacks are provided to allow monitoring of a 0-100 mVDC proportional to 0-100% LHe level common with some MRI LHe level instruments.

The **Model 151** includes a replaceable COTS lithium battery pack with an external charge port. Battery status is conveniently displayed to the nearest 10% of remaining capacity.

The instrument display is an e-ink style which maintains the last measurement display after the power is removed.

A USB connector is provided that functions as a Virtual COM Port (VCP) when connected to a computer. The USB interface is interactive in a standard serial terminal emulating app. USB features include the ability to perform user calibrations for sensor lengths other than the default 60 inches, calibrate the digital voltmeter input, and set the local time.



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