



# Spring Pack Measurement Device Encoder Version (SPMDe)

## Specifications

- **Size:** 2" x 3 3/4" x 3 1/2"
- **Weight:** 1.5 lbs.
- **Accuracy:** 0.4% FS
- **Ranges:** 0-1" or 0-2" Nominal
- TEDS Sensor Recognition

\* Spring packs can be calibrated on Teledyne's Spring Pack Calibration Stand (sold separately)

## Sensor Part Numbers

P/N	System	Travel Distance
160755	QL3-FS	1 inch
160755-2		2 inches

## Accessory Part Numbers

P/N	System	Type
160094	QL3-FS	Limatorque Adapter Plate
160586		Rotork Adapter Plate
160586-M		Rotork Adapter Plate (metric thread version)



Accurate measurement of spring pack displacement is essential for diagnostic testing and the proper setup of a Motor Operated Valve (MOV). Teledyne's encoder version of the spring pack measurement device (SPMDe), when paired with QL3-FS, does just that. This sensor also helps assure that the spring pack is operating within its calibrated range.

Teledyne's newest digital version of the SPMD offers more precision and contains an internal high-resolution encoder module (2,000 LPI). It also has a magnetic base that allows for a more stable placement on all sizes of Limatorque actuators, particularly the 000 through 0 sizes, thus eliminating the need for the SPMD mounting plate accessory.

The SPMDe base has integral extension screws that store conveniently and securely in the body of the sensor. These extension screws have been designed to allow the SPMDe to operate on the rotating surface of spring packs in Rotork actuators. The SPMD Encoder unit is meant to be used with one of the digital channels on your QL3-FS unit (CH15 & 16), which is indicated by a red channel nut. The electrical connector accepts QUIKLOOK's standard 8-channel extension cable which eliminates the need for a separate adapter cable. The SPMD Encoder has been designed to be robust, which can help protect the unit against damage that can occur when it is dropped or mishandled.

