

Ultra Low Maintenance

Straight-line gauging

In-line absolute optical encoder

Ground level display

Economical

The L&J Engineering MCG 150 Top Mounted Gauging System

Float and Tape Gauge

The gauge is a float actuated tape driven gauge and by means of a digital counter indicates float travel accurately to 1/16". This gauge meets all of the specifications and recommendations of the American Petroleum Institute in accordance with API Bulletin 2509B. It comes equipped with the Shand & Jurs Acutrak 90™ modular cartridge which is an innovative tape spooling device.

Absolute Optical Encoding

The electronic transmitter provides absolute optical encoding of the tape gauge movement into a digital signal. Due to this absolute encoding, this transmitter retains level information in the event of a power loss and, therefore, never has to be recalibrated. This encoding also eliminates inherent drift unavoidable in analog transmitters.

Field Programming and Calibration

Field programming and field calibration are easily performed using an L&J MCG 2150 handheld infrared calibrator which eliminates the need for equipment to be disassembled to configure a diagnostic problem. All input parameters can be verified using the on board LCD panel. A ground level display eliminates the need for tank climbing.

Applications

Converts mechanical level measurements into electronic data

Transmits process data such as temperature (spot or average), pressure and alarms

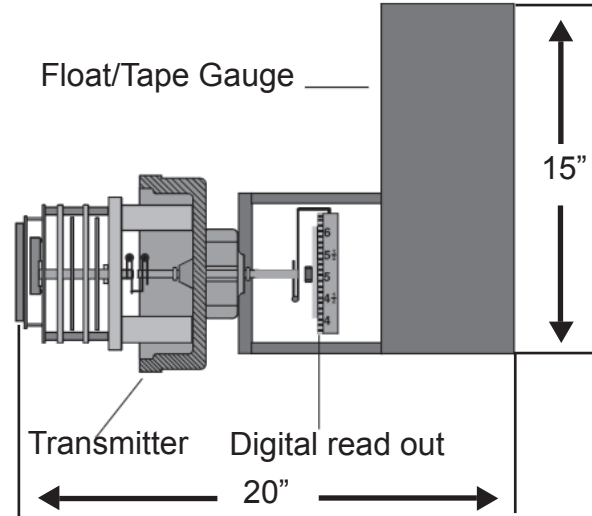
Controls valves and pumps

Installed in bulk liquid storage vessels for the Petroleum, Petrochemical, Chemical, Pharmaceutical, Food & Beverage, and Water Treatment Industries

SPECIFICATIONS

Accuracy (92021):	+/- 1/16 Inch
Gauging Range:	0-96 Feet
Mounting:	Roof Mount
Side-of Tank Display LCD options:	Feet, Inches, 1/16's Metric, Feet, .01 Foot
Temp. Range:	-30° to 400° F
Temp. Resolution:	0.1° F (.06° C)
Body and Cover:	Cast Aluminum
Negator Motor:	Stainless Steel
Perforated Tape:	Stainless Steel
Sprocket Wheel:	Cast Aluminum
Bearing & Seals:	Ball bearings & Teflon
Guidewire:	Stainless Steel
Float:	Stainless Steel
Power Options:	See MCG 2000 MAX
Remote Com. Opt.:	See MCG 2000 MAX
Shaft Encoder:	L&J Patented Magnetic Absolute Encoder. No recalibration. No Geneva Perimeter Gears. No physical contact.
Data Acquisition Opt:	See MCG 2000 MAX
Approvals:	See MCG 2000 MAX

DIMENSIONS



INFORMATION REQUIRED TO ORDER:

Refer to L&J MCG 2000 MAX, MCG 1350, and S&J 92021 Data Sheets for ordering information.

All designs subject to change. Certified dimensions and specifications available upon request.

