

MCG 8151 Flexible Magnetostrictive Level Probe

An Integrated Approach

The MCG 8151 Flexible Magnetostrictive Level Probe are highly accurate, continuous measurement devices that are easy to install and maintain. The compact design allows for the collection and transmission of an impressive amount of data. In addition to measuring two levels (product and interface or two interfaces), five (5) temperature sensors are embedded in the probe at different levels to provide average temperature measurement of the product.

Versatility

With flexible probes in lengths up to 70 feet, the MCG 8151 probe can be installed in nearly any type of storage or process vessel; aboveground or underground. Mounting options include a 4" riser or a 7/8" NPT connector. Flanged connections are also available.

Level Measurement & Point Switch...All in One

Because of the probe's packaging and its high degree of resolution (+/- .001"), the MCG 8151 can provide both level gauging data and act as a point switch for process vessels or overspill alarms.

Proven Technology

The magnetostrictive technology that is employed in the MCG 8151 has been proven to be extremely reliable. The probe is comprised of a wave guide, one or two floats with permanently-embedded magnets, a motion or stress sensing device, and a probe housing. Together, these components measure the level of product in a vessel through a simple physical property known as the Wiedemann Effect.



Features

- High Resolution of +/- .001"
- Two Separate Levels Simultaneously Measured
- Average Temperature with Internal Sensors

Applications

- Can be used in various types of storage or process vessel; above or underground
- Level measurement on food and beverage process tanks
- Level control on chemical process vessels

MCG 8151

Flexible Magnetostrictive Level Probe



Specifications:

Operating Principle:
Magnetostrictive Sensing

Communication:
L&J Tankway

Resolution Level:
.001 inch

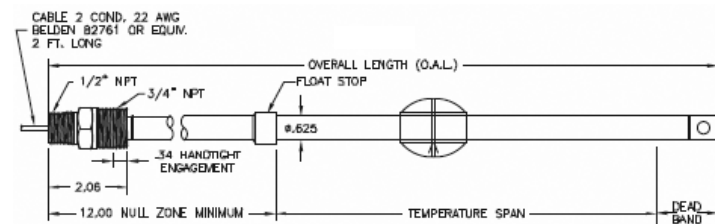
Temperature Sensing:
Average Temperature (5 Internal RTD's)

Temperature Resolution:
.01°F

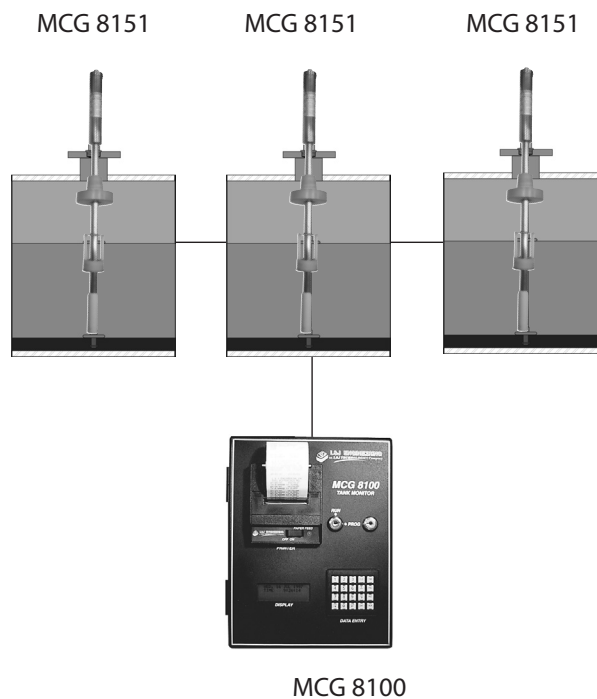
Floats:
2" or 3" Polyurethane or Stainless

Probe Material:
Flexible PVDF magnetostrictive level probe

Dimensions



Typical System Layout



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

MCG 8151 Ordering Guide

MCG 8151 Flexible Magnetostrictive Level Probe

Includes: Flexible PVDF magnetostrictive level probe and 5 RTDs. Up to 840" (70'). Mounts into 2", 3" or 4" opening.

Model Number Selection:

The model number will consist of a base number **MCG 8151** followed by eight digits. These digits will represent four sets of option tables:

MCG 8151 - ABC - DE - FG - H

ABC - Tank Height in Inches		
ABC - ABC	ABC - ABC	ABC - ABC
044" - 096" (3'8" - 8')	445" - 456" (37'1" - 38')	649" - 660" (54'1" - 55')
097" - 120" (8'1" - 10')	457" - 468" (38'1" - 39')	661" - 672" (55'1" - 56')
121" - 144" (10'1" - 12')	469" - 480" (39'1" - 40')	673" - 684" (56'1" - 57')
145" - 192" (12'1" - 16')	481" - 492" (40'1" - 41')	685" - 696" (57'1" - 58')
193" - 216" (16'1" - 18')	493" - 504" (41'1" - 42')	697" - 708" (58'1" - 59')
217" - 240" (18'1" - 20')	505" - 516" (42'1" - 43')	709" - 720" (59'1" - 60')
241" - 264" (20'1" - 22')	517" - 528" (43'1" - 44')	721" - 732" (60'1" - 61')
265" - 288" (22'1" - 24')	529" - 540" (44'1" - 45')	733" - 744" (61'1" - 62')
289" - 312" (24'1" - 26')	541" - 552" (45'1" - 46')	745" - 756" (62'1" - 63')
313" - 336" (26'1" - 28')	553" - 564" (46'1" - 47')	757" - 768" (63'1" - 64')
337" - 360" (28'1" - 30')	565" - 576" (47'1" - 48')	769" - 780" (64'1" - 65')
361" - 384" (30'1" - 32')	577" - 588" (48'1" - 49')	781" - 792" (65'1" - 66')
385" - 396" (32'1" - 33')	589" - 608" (49'1" - 50')	793" - 804" (66'1" - 67')
397" - 408" (33'1" - 34')	609" - 624" (50'1" - 52')	805" - 816" (67'1" - 68')
409" - 420" (34'1" - 35')	625" - 636" (52'1" - 53')	817" - 828" (68'1" - 69')
421" - 432" (35'1" - 36')	637" - 648" (53'1" - 54')	829" - 840" (69'1" - 70')
433" - 444" (36'1" - 37')		

DE - 1 or 2 Levels / Interstitial Capabilities	
01	Product Level & BS&W With Interstitial Capability
02	Product Level & BS&W Without Interstitial Capability
11	Product Level Only With Interstitial Capability
12	Product Level Only Without Interstitial Capability

H - Interface Type	
1	Connection to MCG 1010M
2	Connection to MCG 8100

FG - Float Material / Opening Size*	
03	3" Polyurethane Float / 3" Opening
04	3" Polyurethane Float / 4" Opening
12	2.05" Stainless Steel Float / 2" Opening
13	2.05" Stainless Steel Float / 3" Opening
14	2.05" Stainless Steel Float / 4" Opening

*For other materials, consult factory.