



ORION
INSTRUMENTS
A Magnetrol® Company

THE NEXT GENERATION OF MAGNETIC LEVEL INDICATION

OCT REED CHAIN TRANSMITTER

Model OES with epoxy coated aluminum enclosure



Model OES with stainless steel enclosure mounted on Atlas™ MLI



DESCRIPTION

The OCT analog transmitter mounts directly to the side of the Atlas, Aurora® or Gemini chamber, providing a continuous 4–20 mA output signal proportional to liquid level. Using simple and reliable reed switches that are surface mounted to a printed circuit board, the unit offers an accuracy of $\pm 0.50"$ (13 mm). Activated by the field of the float magnets, the transmitter is completely non-invasive and designed for years of maintenance free service.

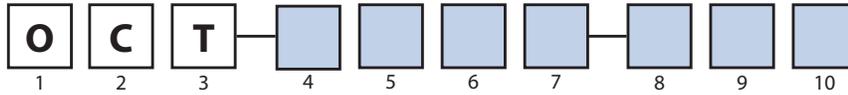
Each unit is manufactured with a stainless steel outer tube which encases the reed switch assembly, resistance chain, and an aluminum or stainless steel enclosure which houses the electronic module and field wiring terminations.

SPECIFICATIONS

Model	OCT-xxxx-xxx
Type	Reed chain
Supply voltage	12 - 36 VDC
Resolution	$\pm 0.50"$ (13 mm)
Output signal	4–20 mA
Temperature range	-40° to +158° F (-40° to +70° C) (higher temperatures available with insulation. Consult factory.)
Enclosure rating	NEMA 4X
Enclosure material	cast aluminum or 316 stainless steel
Conduit/Cable Entry	cast aluminum enclosure: $\frac{1}{2}"$ NPT stainless steel enclosure: $\frac{3}{4}"$ NPT
Span	6" to 198" (15 to 503 cm)
User interface	Potentiometers
Sensor length	Span + 8" (20 cm)
Transmitter position	Top or bottom mount
Mounting	Clamp mount to MLI (non-invasive)

AGENCY	MODEL	CATEGORY
FM 	All models	Class I, Div. 1, Groups B, C, & D Class I, Div. 2, Groups A, B, C, & D
CSA 	All models	Class II, Groups E, F, & G Class III, Type 4X NOTE: FM approval limited to 120" length
CE 	All Models	These units have been tested to EN 50081-2 and EN 50082-2 and are in compliance with the EMC Directive 89/336/EEC

OCT Reed Chain Transmitter



4 ENCLOSURE

A	Cast Aluminum
S	Stainless Steel

5 ENCLOSURE MOUNTING POSITION

T	Top mounted
B	Bottom mounted

6 CHAMBER MOUNTING CODE

No insulation present on MLI	
1	MLI model code digit 20 is 1, 2, or 7
2	MLI model code digit 20 is 3, 4, 5 or 6
3	MLI model code digit 20 is A, B, C, or D
4	MLI model code digit 20 is E, F, G, H, or J
5	MLI is a Top Mount design

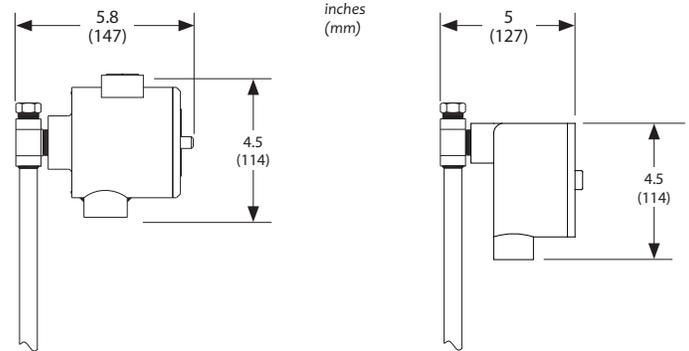
High-temp insulation on MLI	
E	MLI model code digit 20 is 1, 2, or 7
F	MLI model code digit 20 is 3, 4, 5 or 6
G	MLI model code digit 20 is A, B, C, or D
H	MLI model code digit 20 is E, F, G, H, or J
J	MLI is a Top Mount design

7 UNIT OF MEASURE

E	Measuring length specified in inches
M	Measuring length specified in centimeters

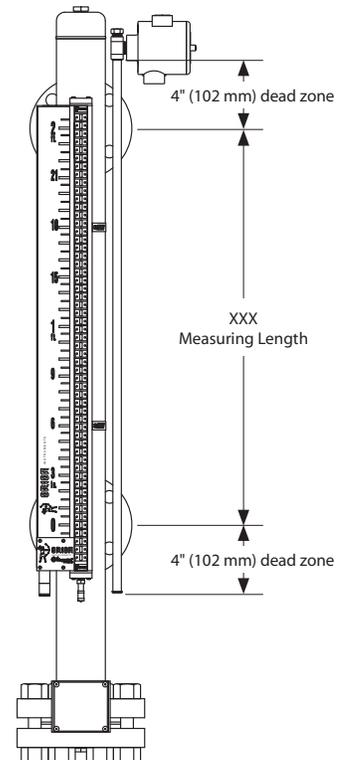
8, 9, 10 MEASURING LENGTH

XXX	6" to 198" (15 cm to 503 cm)
	same as MLI center-to-center dimension
	Example #1: 56 inches of measuring length = 056 (digit 7 is "E")
	Example #2: 94 cm of measuring length = 094 (digit 7 is "M")



Dimensions:
stainless steel enclosure

Dimensions:
aluminum enclosure



Probe dimensions



6646 Complex Drive • Baton Rouge, Louisiana 70809 • 225-906-2343 • Toll Free 866-55-ORION (866-556-7466) • Fax 225-906-2344 • www.orioninstruments.com
Effective January 1, 2011: 2105 Oak Villa Drive • Baton Rouge, Louisiana 70815

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