

6700 Liquid Level Indicator

Accurate gaugeboard indicator for level measurement in storage tanks



Applications

The Model 6700 Liquid Level Indicator is an economical, easy to install measurement device utilising target and gaugeboard to indicate tank level. The indicator displays liquid level (product innage) to an accuracy 25 mm (1"). Designed for use on a variety of atmospheric and low pressure storage vessels, the 6700 may be installed on both in-service and out-of-service tanks.

Features

- Accurate to 25 mm (1")
- Durable aluminum gaugeboard with vinyl facing
- Level indication in feet/inches or metres/decimetres
- Full travel or half travel designs
- Standard and severe service configurations
- Vertical cone roof and bolted tank models



Measuring System

Installation

Accessories

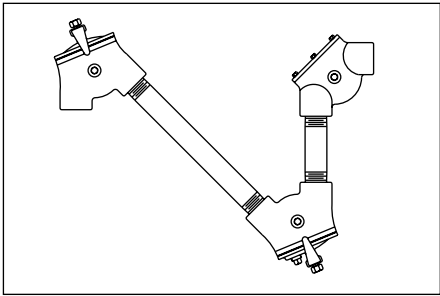
Operation

Changes in the liquid level in the tank raise or lower the float, which moves the indicator cable. Cable movement drives the indicator up and down the gaugeboard on the side of the tank. The liquid level in feet and inches, or metres and decimetres is shown by the indicator position on the gaugeboard. The user may then convert the liquid level to units of volume. This may be accomplished manually or Endress+Hauser's computer aided data acquisition system may perform the task.

Endress+Hauser offers a variety of models and installation kits to suit most applications for the 6700 Liquid Level Indicator. Included with each 6700 are all components necessary for installation, except for the 38 mm (1-1/2") pipe. A comprehensive instruction manual provides step by step details on installation.

The aluminum gaugeboard is provided in 2.1 m (7 ft) sections and includes the necessary number of splice brackets to connect the sections supplied per the measuring range ordered. The aluminum board is 2 mm (0.8") thick with a vinyl facing of Imperial or Metric units of measure.

Oil Seal Unit



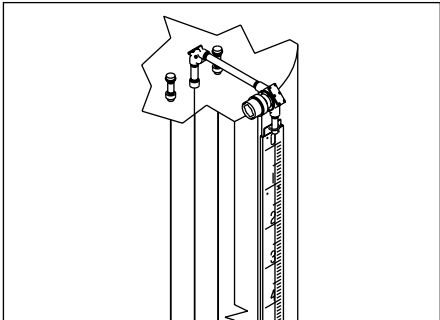
Oil Seals

Oil seals are used when the tank cannot be free vented to atmosphere.

Drive Elbow Modification Kit

This kit allows additional transmitters or limit switches to be driven by the 6700. The kit includes the drive elbow, which replaces the standard elbow, and sufficient tape/cable for a 14.4 m (48 ft) tank.

Drive Elbow
Modification Kit



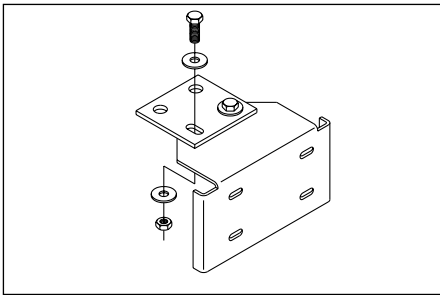
Manways and Inspection Covers

To facilitate initial installation and subsequent inspection and service, Endress+Hauser offers several inspection and manway covers.

Extension Bracket Kit

The extension bracket bolts to the standard bracket and provides an extension of approximately 50 mm (2") from the side of the tank. Slotted holes are provided for adjustment. The kit includes a single bracket and the necessary mounting hardware.

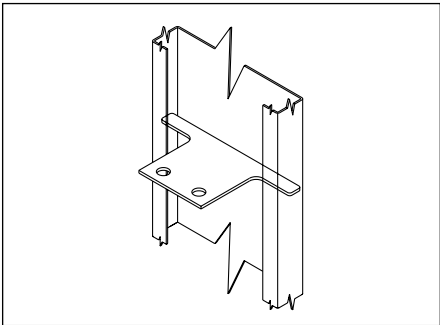
Gaugeboard
Extension Bracket
50.8 mm (2")



Reinforcing Bracket

The reinforcing bracket is installed between the standard mounting bracket and provides additional stiffness for the gaugeboard. This option is recommended for areas with high wind conditions.

Center Gaugeboard
Reinforcing Bracket

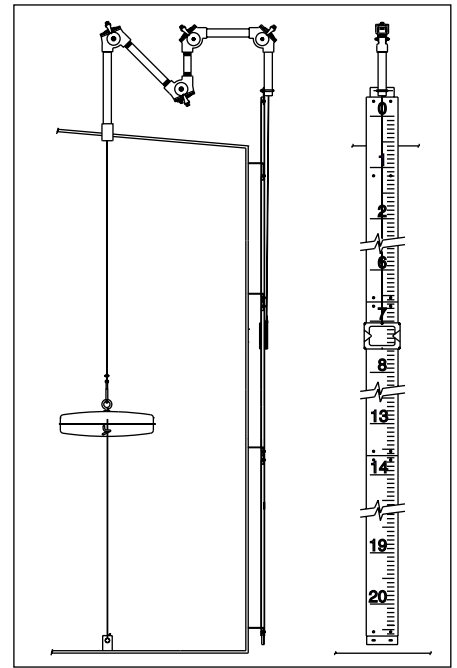
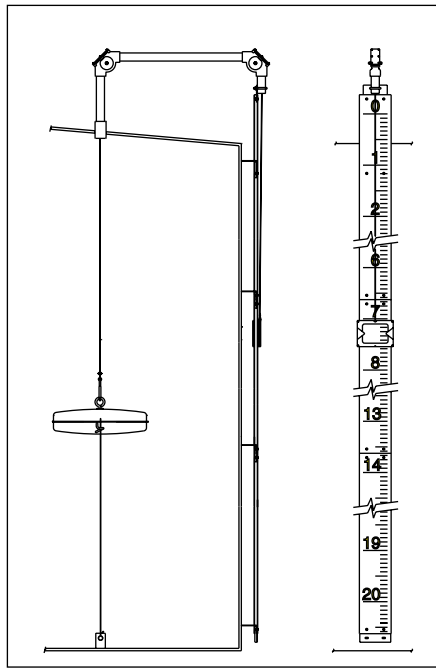
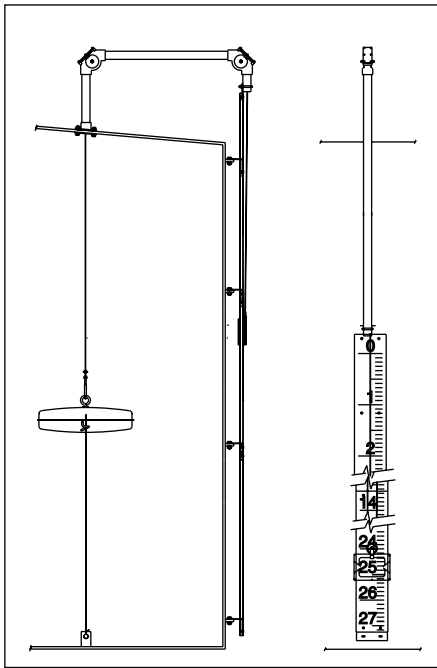


Severe Service Kit

For corrosive chemical storage, Endress+Hauser offers a Severe Service Kit. All wetted parts are fabricated from fibre reinforced plastic (vinyl ester) or teflon coated stainless steel.

Stainless Steel Kit

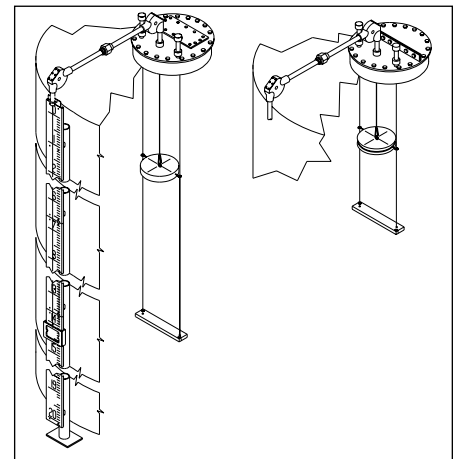
For corrosive or clean liquids such as potable water, a Stainless Steel Kit is offered with all wetted parts, top anchors and elbows fabricated from 316 stainless steel.



Left:
Cone roof tank half travel bolted

Center:
Cone roof tank full travel

Right:
Cone roof tank full travel severe service shown with Oil Seal option



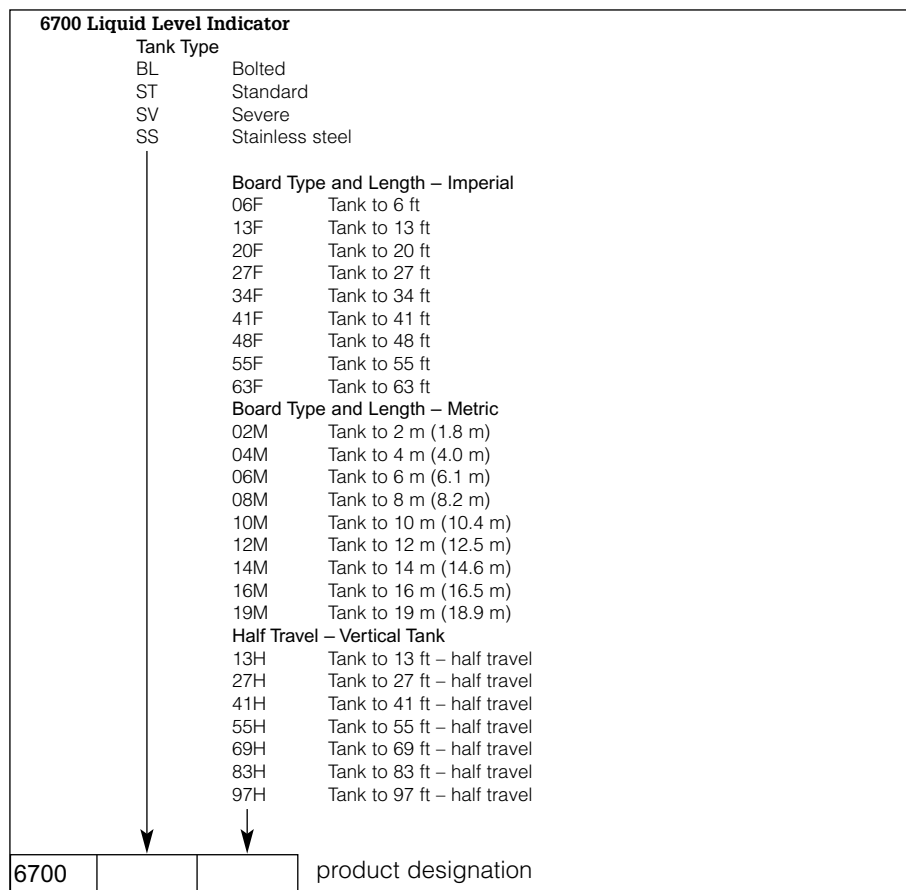
The 6700 can be installed using various manhole covers

Technical Data

Materials of Construction

Description	Standard Service	Stainless Steel	Severe Service
Indicator board	2 mm (0.08") aluminum	2 mm (0.08") aluminum	2 mm (0.08") aluminum
Sheave elbows	Aluminum	316 stainless steel	Cast iron
Indicator target	316 SS/HMWPE	316 SS/HMWPE	316 SS/HMWPE
Float	316 stainless steel	316 stainless steel	Fibre reinforced vinyl ester
Float cable	316 stainless steel	316 stainless steel	Teflon coated 316 SS
Guide cable	316 stainless steel	316 stainless steel	Teflon coated 316 SS
Top anchors	Steel	316 stainless steel	Steel
Bottom anchors	Steel	316 stainless steel	(Customer supplied)
Cable fastener	316 stainless steel	316 stainless steel	Fibre reinforced vinyl ester
Cable crimp	Nickel plated copper	Nickel plated copper	Nickel plated copper

Product Structure



Oil Seals

Part Number	Description
10-01994-AAA	135° aluminum elbows, 216 mm (8.5") W.C. max. working pressure
10-01994-BAA	135° cast iron elbows, 216 mm (8.5") W.C. max. working pressure
10-02861-AAA	180° aluminum elbows, 689 mm (27") W.C. max. working pressure

Drive Elbow Modification Kit

Part Number	Description
13-08821	Drive Elbow Modification Kit, Imperial
13-08971	Drive Elbow Modification Kit, Metric

Extension Bracket Kit

Part Number	Description
13-10720-003	Extension Bracket Kit

Reinforcing Bracket

Part Number	Description
02-10721	Reinforcing Bracket

Locations

Endress+Hauser
Systems & Gauging Ltd.
Heighington Lane
Newton Aycliffe
Co Durham DL5 6XZ
United Kingdom
Tel: +44 (0)1325 321111
Fax: +44 (0)1325 300840

Endress+Hauser
Systems & Gauging S.A.
Rue de Bitche
62100 Calais
France
Tel: +33 - (0)321-96-49-93
Fax: +33 - (0)321-34-36-12

Sakura Endress Co., Ltd.
862-1 Mitsukunugi
Sakaigawa-mura
Higashi-Yatsushiro-Gun
Yamanashi Prefecture
406-0846 Japan
Tel: +81 (0)552-66-4964
Fax: +81 (0)552-66-4969

Endress+Hauser
Systems & Gauging, Inc.
2901 W. Sam Houston
Parkway North
Houston, TX 77043
USA
Tel: +1 (832) 590-6200
Fax: +1 (832) 590-6201

Endress+Hauser
Systems & Gauging, Inc.
1800 Diagonal Road
Suite 300
Alexandria, VA 22314
USA
Tel: +1 (703) 837-9202
Fax: +1 (703) 837-9209

Systems & Gauging Headquarters

Endress+Hauser
Systems & Gauging, Inc.
5834 Peachtree Corners East
Norcross (Atlanta), GA 30092
USA
Tel: +1 (770) 447-9202
Fax: +1 (770) 662-8939
<http://www.systems.endress.com>

Endress + Hauser
Systems & Gauging

