

# Magnetic Level Gauge

## Almeg Controls Remote Visual Indication (RVI) Liquid Level Gauge

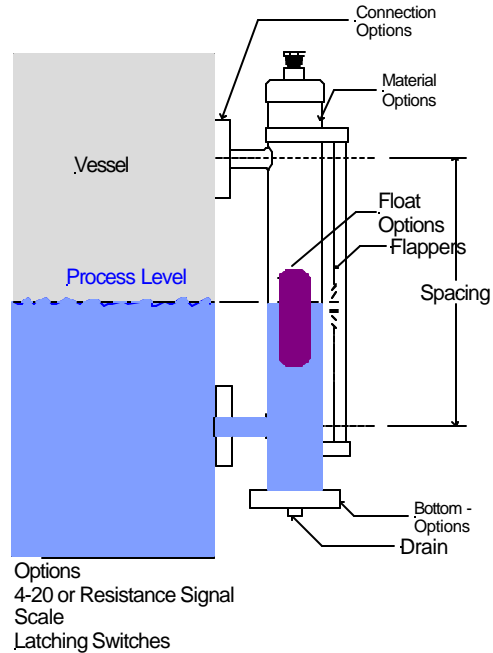
### Description:

The RVI style of level gauge is probably best suited for the widest possible ranges of level indication. It's engineered design offers a magnetically coupled series of changing colored flags that follow the float as it rises and falls with the process in the vessel.

In it's simplest of form; the changing flag color will visually indicate the actual process level from quite a distance away.

If more level information is required, Almeg offers options like a continuous level reading, individual adjustable SPDT latching switches or a scale, all attached to the external body of the RVI.

The RVI housing and floats are available in plastic or stainless material. Tank connections and drain can be NPT to most flange sizes. Valves for drain and tank connections can be added as well as specialty connections and tank configurations.



### How It Works:

A standoff gauge is built from dimensions and optional information supplied by the purchaser. To save initial costs, options like switches and continuous readings can be added at a later date.

For all models, a selected specific gravity and material float is equipped with an extremely strong internal ring magnet. The magnet offers an external magnetic field that covers 360-degree circle so it can rotate and still work. This magnet is engineered to operate the flags and options such as continuous level readings. Each individual flag has an internal magnetic installed as well. The magnetic is situated near the edge and sealed inside. As the float follows the liquid it flips the colored floats indicating the level. The flags stay flipped (changing the visual color) until the float returns in the other direction. The installed magnetic position in the flag serves as a dual purpose in coupling with it neighbor and aligning the flags in a neat vertical position.

### Options:

#### Process Connection:

Most NPT or flange sizes are available.

#### Floats:

S.G. from 0.6 to 0.87 in SS  
0.75 in PVDF, 0.7 in PP

#### Flags

Miniature and Standard size

#### Standoff Material

Stainless, PVDF, PP, CPVC, Clear PVC, PVC

#### Indication

Flag, 4-20, Resistive, SPDT Latching Switch



Stainless



Clear Plastic



Flag



Flag



Stainless Small



Polypropylene



PVDF Kynar