

## IE MAG/NA/LARM – Magnetic Flow Rate Alarm

### VARIABLE AREA FLOWMETERS – ACCESSORIES

#### Description

The IE Mag/Na/Larm is a magnetically actuated alarm switch system used to warn of abnormal flow conditions. It can be furnished on any flowmeter which uses an extension- type metering float, including instruments also provided with indicating and transmitting extensions. Single or multiple magnetically actuated switches can be positioned over the entire flowmeter range. A weather tight case protects the entire unit.



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#### Design Features

- Vibration-proof, dry reed switches – Contacts are hermetically sealed in glass. Long life – Tested for a half-million operating cycles under normal load conditions. Reversible switch can be changed to make or break contact on rising flow. SPDT relay standard (DPDT relay optional). Explosion proof construction available. Switch setting easily adjusted in the field

#### Materials Of Construction

EXTENSION WELL: Standard – 316 Stn. Stl.

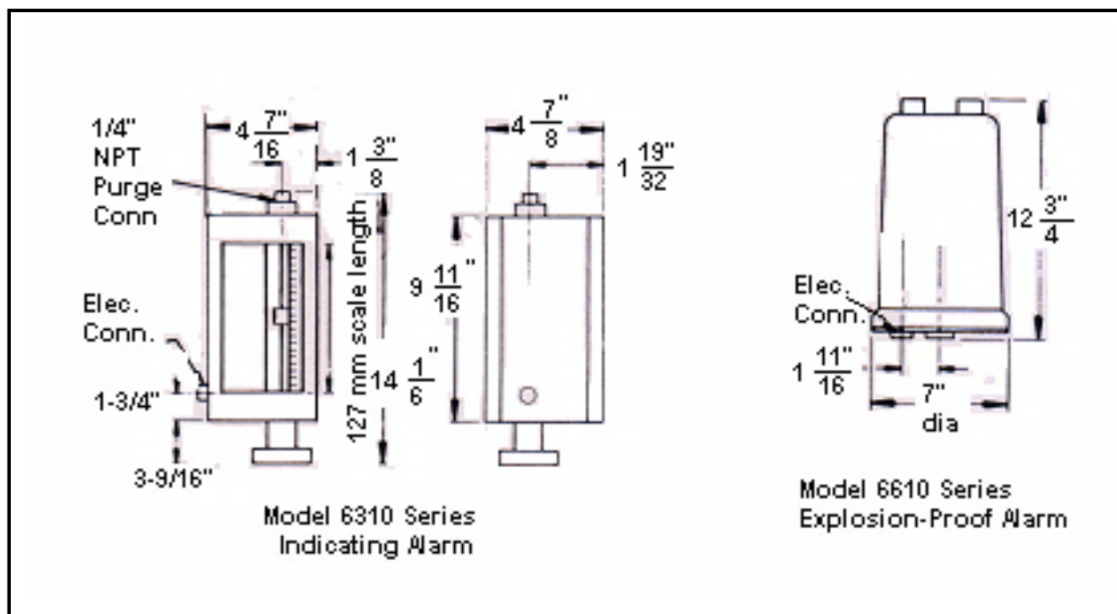
#### Specifications

SENSITIVITY: Unit is capable of detecting one millimetre of float movement. POWER REQUIREMENTS: 220 Vac 50 Hz standard, 110- 125 Vac optional MAGNETIC SWITCH: One millisecond make and break; rhodium-plated contacts rated at 0.25 amperes, 115 Vac resistive load. RELAY: SPDT in a dust-tight enclosure, rated at 3 amperes inductive load, 6 amperes resistive load, 220 Vac 50 Hz. MAX. CASE AMBIENT TEMPERATURE : 250°F HOUSING: Models 6311, 6411 – NEMA 1; Models 6511, 6611, 6631 – NEMA 7 (Meets Class 1, Group D, Division 1, requirements.); Models 6211, 6331 – NEMA 12 MAX. NUMBER OF CONTACT SWITCHES: 6200 (Blind) 2 switches and relays, 4 switches without relay. 6300 (Indicating) 3 switches and relays, 4 switches without relays. 6500 and 6600 3 switches and relays, 4 switches without relays.

#### Principle Of Operation

In operation, when the flow rises or falls into the area of the alarm setting, the magnet on the float assembly causes the dry reed switch to actuate thereby triggering the warning device which may be a horn, whistle, bell or panel light. Due to the inherent low power capability of the reed switch, a relay is normally used. The Mag/Na/Larm can be used with either glass or metal tube flowmeters.

**Dimension (For certified dimension prints, write to factory.)**



**Ordering Information:**

The Mag/Na/Larm flow rate alarms are designated by a 6000 series number. The second, third and fourth digits further describe the specific units as follows:

| Type of Alarm                                        |           | Flowmeter Float Travel |           | Switch/Relay Arrangement |           |
|------------------------------------------------------|-----------|------------------------|-----------|--------------------------|-----------|
| Description                                          | 2nd Digit | Description            | 3rd Digit | Description              | 4th Digit |
| Blind, no purge, sheet metal case                    | 2         | 5" (127 MM)            | 1         | 1 Switch with Relay      | 1         |
| Indicating, w/top purge, side plate constructed case | 3         | 3" (75MM)              | 2         | 2 Switches with 2 Relays | 2         |
| Blind, w/top purge, side plate constructed case      | 3         | 1-1/2" (38MM)          | 3         | 3 Switches with 3 Relays | 3         |
| Blind, w/top purge, side plate constructed case      | 4         | 3" (75 MM)             | 2         | 2 Switches with 2 Relays | 2         |
| Explosion – proof, with purge                        | 5         | 1-1/2" (38MM)          | 3         | 3 Switches with 3 Relays | 3         |
| Explosion – proof, no purge                          | 6         | Others                 | 9         | 2 Switches with 2 Relays | 2         |
| Integral in 5500 Series flowmeter transmitter case   | 9         |                        |           | 4 Switches with 4 Relays | 4         |
|                                                      |           |                        |           | 1 Switch, no Relays      | 5         |
|                                                      |           |                        |           | 2 Switches, no Relays    | 6         |
|                                                      |           |                        |           | 3 Switches, no Relays    | 7         |
|                                                      |           |                        |           | 4 Switches, no Relays    | 8         |
|                                                      |           |                        |           | Other combinations       | 9         |

**Specifications subject to change without notice.**