



# Agni

## Veiga Series

### Intelligent Addressable

Agni Instruments Engineers India Private Limited

V-1

#### TECHNICAL DATA SHEET

#### PHOTOELECTRIC SMOKE DETECTOR

#### AGNI VEIGA -IND-OP / OPTICAL



The AGNI IND-OP analogue Optical Smoke Detector is a point detection device that continuously monitors the air in the protected area to provide the earliest warning of a fire condition. The advanced design of the smoke inlet and optical chamber guarantees a very high resistance to the entry of dust, ensuring a higher level of false alarm rejection without compromising sensing performance. This detector forms part of the Altair range of aesthetically pleasing low profile detection and alarm products and is fully compatible\* with all fire control equipment utilising the AGNI fully digital communication protocol.

#### Product Overview

- An optical photoelectric smoke detector uses light scattering to find smoke, employing an infrared LED and a photo diode in a chamber when smoke enters, particles scatter the light onto the sensor, triggering an alarm, making them great for slow, smoldering fires, though they need regular cleaning to prevent dust-related false alarms systems used homes offices & large commercial spaces for early fire detection.
- Standards Compliance: Conforms to **EN54-7** Smoke Detectors code of practice in **IS 2189.-11360:1985**

#### INTELLIGENT SMOKE DETECTOR

- Intelligent digital communication protocol
- Auto addressing capability on compatible fire control panels
- LEDs providing 360deg cone of visibility
- Dust Restrict Chamber (DRC) technology offering advanced immunity to airborne contaminants
- Open style mounting base offers easy wiring and low pressure locking
- Programmable Handheld Device Programming Tool
- 4 selectable alarm thresholds
- Low profile Desing

1. Position the detector centrally on its mounting base (**ensure it is level**).

2. Rotate clockwise applying gentle pressure. The detector will drop into its keyed location.

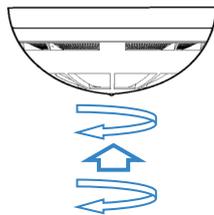
3. **Press more firmly** to win the force of the contacts.

4. Continue to rotate clockwise a few degrees until the detector has fully engaged in the mounting base.

5. When the detector is firmly engaged verify the alignment between the detector and the raised reference marks on the **base (figure 7)**.

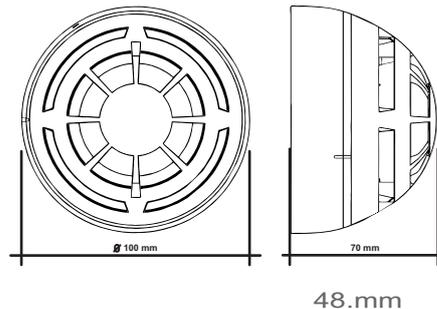
6. After all detectors and other loop devices have been installed, apply power to the loop in accordance with the control panel's installation instructions.

7. Test the detectors as described in the section headed "TESTING".



#### TECHNICAL SPECIFICATIONS

Loop voltage	15Vdc – 40Vdc *
Average standby current	70µA @ 24Vdc
Remote Output Max Current	20mA
Alarm Current	6mA @ 24Vdc
Temperature Range	Unavailable
Max tolerated humidity (non condensing)	95% RH
Max number of loop addresses	240 / 256
Weight (standard base included)	130 g
IP rating	40 (42 with base's waterproof protection)



CE  
EN 54-5-7  
IS 2189  
ERTL / NABL