Agni Instruments Engineers India Private Limited

# Agni Veiga Series

**Intelligent Addressable**

V-1

**TECHNICAL DATA SHEET**

## INTELLIGENT CONTROL MODULE


### AGNI VEIGA -IND-VMIC-120

The monitoring and control requirements of most fire detection and alarm systems, ranging from small and simple, to large and complex. By utilising the Agni fully digital communication protocol, reliable and fast operation is achieved even when employing the impressive 240 device loop capacity. A choice of mechanical configurations provides easy integration of the units into a variety of field locations. The VMIC120 is mounted on a standard faceplate and can be used with a surface back box or flush mounted and provides the capability to both remotely monitor a single circuit and control a single ancillary circuit using a set of volt-free changeover relay contacts. The input circuit is monitored for fault and an alarm condition. Bi-colour LEDs provide local indication of device status.

### Product Overview & Function

A Control Module in a fire alarm system acts as a vital bridge, taking signals from the main panel to activate external devices (like shutting doors, stopping elevators, activating suppression) or monitoring inputs (like conventional system) by converting signals to an addressable format, enhancing system safety, flexibility, and integration for comprehensive fire management. These modules provide supervised outputs for bells/strobes (Control Modules) or dry contacts for complex systems (Relay Modules) and ensure coordinated responses beyond simple alarms, crucial for large buildings.

### Key Functions & Types

- **Control Module (Output Module):** Provides a 24V DC output to power devices like horns, strobes, and sounders, supervising the circuit for faults.
- **Relay Module (Output Module):** Offers potential-free (dry contact) outputs to control high-power systems (lifts, HVAC, sprinklers, access control) without needing external power for the module itself.
- **Detection:** A detector or pull station triggers an alarm at the main panel (FACP).
- **Signal Processing:** The FACP sends a signal to the specific control or relay module.
- **Monitor Module:** Reads a dry contact from a device, tells the panel "FIRE!".

## INTELLIGENT CONTROL MODULE

- Integrated short circuit isolators to protect and maintain operation
- Loop powered with very low current consumption
- Robust proven design offering operation over a wide temp. range
- Monitored input and volt-free output providing changeover relay contacts
- Fast fit plug-in cable connections
- Alternate mechanical variants available to satisfy different applications
- LED status indicators for both input and output circuits
- Fits to single gang Extra back box

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Loop voltage range | 15Vdc – 40Vdc* |
| Normal Standby Current | 250µA @ 24Vdc |
| Alarm Current (1-2 red LED) | 6-12mA @ 24Vdc |
| Dimensions | 86.5 x 86.5 x 24mm (ex-back box) |
| Max output rating | 2A @ 30Vdc |
| Temperature Range (no icing) | -10°C to +70°C |
| Max. humidity (non condensing) | 95% RH |
| Weight | 200g |

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