



# Agni

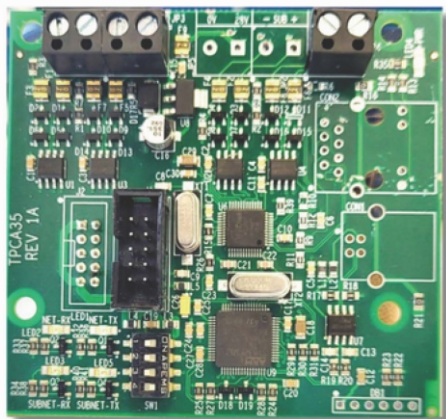
## Veiga Series

### Intelligent Addressable

Agni Instruments Engineers India Private Limited

V-1

#### TECHNICAL DATA SHEET



#### MODBUS BMS COMMUNICATIONS CARD

##### FAP-Modbus BMS COMMUNICATIONS CARD

Agni Veiga intelligent Addressable fire alarm Modbus card (or gateway/interface) is a hardware module that translates a fire alarm control panel's proprietary signals into the standard Modbus protocol (RTU/TCP), allowing integration with Building Management Systems (BMS), SCADA, or PLCs for monitoring and control, converting device statuses (Normal, Fire, Fault) into data points that external systems can read over RS-485 or Ethernet.

Connection: The card plugs into the Fire Alarm Control Panel (FACP) and connects via twisted-pair cable (RS-485) or Ethernet. Data Extraction: It reads status information from the panel's devices (detectors, modules, outputs). Conversion: Translates this data into Modbus messages.

#### Product Overview & Function

Agni veiga Protocol Translation: Converts fire panel's native communication to standard Modbus (RTU over RS-485 or TCP/IP). System Integration: Acts as a bridge to larger systems (BMS, SCADA) for centralized monitoring. Data Mapping: Maps fire panel info (detector status, zone status, output states) to Modbus registers. Status Reporting: Provides real-time data like Fire, Fault, Normal, Disable states for devices and zones. Physical Interface: Connects to the panel's peripheral bus (RS-485) and offers communication ports (RS-232, Ethernet) for external systems.

#### Response Indicator Concealed

#### TECHNICAL SPECIFICATIONS

##### System Status Register (2bytes)

Alarm (1st bit)  
Faut (2nd bit)  
Disables (3rd bit)  
Test Mode (4th bit)  
Evacuation (5th bit)

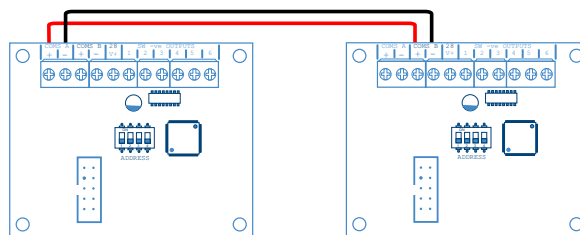
##### Panels Status Registers

Alarm (1st bit)  
Faut (2nd bit)  
Disables (3rd bit)  
Test Mode (4th bit)  
Evacuation (5th bit)  
Alarm Silenced (6th bit) 1  
Buzzer Muted (7th bit)  
Class Change Active (8th bit)  
Alert Active (9th bit)

##### Zone Status Registers (64x40 zones)

Alarm (1bit per zone)

Supply Through	Main Panel Mother Board
Standby Current	5.2mA
Cable Size	1.5-SQ-MM
Comms A - B	485- fused @ 20mA
Operating Temperature	-10°C / +70°C
Weight (standard base included)	45 g
IP rating	40 (42 overall waterproof protection)



CE  
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