PolyGard DGC5 Multi-Point RS-485 Digital Gas Detection and Control System

**DGC5 Central Control Unit**
- GC5-48-48 Control Module
  - Controller
  - User Interface: LCD, LED, Touch Buttons
  - (4) Digital Inputs
  - (5) SPDT Relay Outputs
  - (2) 4-20 mA Outputs
- EP5-05 Relay/AO Module “Optional”
  - (5) SPDT Relay Outputs
  - (2) 4-20 mA Outputs
- CON5-A RS-485 Serial Port/Trunk Module
  - Trunk/Bus Protector
  - 24 VDC Power Supply
- C5 Communication Coupler(s) “Optional”
- BACnet Interface
  - Integrated Modbus Interface “Optional” at Controller module

**Upwards Communication, BACnet or Modbus**
- Max. (98) RS-485 Digital DT5 Transmitters or combination of (48) RS-485 Digital DT5 Transmitters and (48) 4-20 mA Analog AT Transmitters (one “AT” connected via one “DT”)

**DGC5 Specifications**
- Digital Service via Laptop
- RS-485 & 24 VDC Power Trunk/Bus
  - Single 4-conductor multi-drop configuration
  - 18 AWG wire size, shielded twisted pair
  - Various lengths up to 2900 ft (900 m)
  - Depends on transmitter quantities and/or types
  - No ground connection required for shielded cable, controller enclosure or remote transmitters

**Relay/AO Units**
- REL5-2R-1A Remote Relay/AO Unit
  - (2) SPDT Relay Outputs, 0.5 A
  - (1) 4-20 mA Output
- REL5-5R-2A-120 Remote Relay/AO Unit
  - (5) SPDT Relay Outputs, 8 A
  - (2) 4-20 mA Outputs
  - Transformer 120/208/240, 24 VAC

**Repeater Module**
- REP5-PS24 Repeater Module
  - Required for:
    - Trunk length over 2,900 ft (900 m)
    - More than (20) bus subscribers/nodes
    - 24 VDC power boosting
  - "Requires an external 24 VAC power supply"

**Digital Service**
- 4-conductor multi-drop configuration
- 18 AWG wire size, shielded twisted pair
- Various lengths up to 2900 ft (900 m)
- Depends on transmitter quantities and/or types
- No ground connection required for shielded cable, controller enclosure or remote transmitters

**PolyGard DGC5**
- DGC5 Central Control Unit
- GC5-48-48 Control Module
- EP5-05 Relay/AO Module
- CON5-A RS-485 Serial Port/Trunk Module
- C5 Communication Coupler(s)
- BACnet Interface
- Digital Service
- Relay/AO Units
- Repeater Module

**Related Components**
- DGC5 Central Control Unit
- GC5-48-48 Control Module
- EP5-05 Relay/AO Module
- CON5-A RS-485 Serial Port/Trunk Module
- C5 Communication Coupler(s)
- BACnet Interface
- Digital Service
- Relay/AO Units
- Repeater Module

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**Specifications subject to change without notice. | USA 190819 | Page 6 of 10**

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