

## . . . Multi-Point RS-485 Digital Bus Gas Detection & Control System

Stand-alone multi-point, networking control system, wall-mounted for various gas detection, control and alarm in garages, warehouses, loading docks, equipment rooms, etc.



**DGC5 Controller Unit Series**

### Central Control Unit

*Accepts combinations of toxic or combustible gases, refrigerants, temperature or humidity transmitter inputs.*

### DGC5 Central Control Unit

- Five-stage/level control per transmitter
- RS-485 serial communication between control unit, transmitters, and remote relay modules
- Keypad user interface
- LCD display and status LEDs
- PC programming via RS-485 trunk
- NEMA 12/4X enclosures
- Power 90...230 VAC



**DT5/AT Transmitter Series**



### Port-Bus

- (1) to (8) ports/buses
- Daisy-chain (multi-drop), 4-conductor for RS-485 serial bus communication and DC powering

### Inputs/Outputs

Total addressable inputs and outputs remotely via (1) to (8) ports/buses or at the central control unit

#### Inputs

- Up to (98) RS-485 transmitters or combination of (48) RS-485 transmitters and (48) 4-20 mA analog transmitters or other devices
- (4) digital

#### Outputs

- Up to (30) relays
- Up to (12) 4-20 mA signals
- Switched 24 VDC
- Audible alarm

### Gas in Air Detection

- DT5/AT addressable RS-485 Transmitters
  - Carbon Monoxide (CO)
  - Nitrogen Dioxide (NO<sub>2</sub>)
  - Nitrogen Oxide (NO)
  - Ammonia (NH<sub>3</sub>)
  - Oxygen (O<sub>2</sub>)
  - Combustible (i.e. Methane, Hydrogen, Gasoline, and more)



*Network systems are factory configured and calibrated to customer requirement. Calibration certificate supplied with shipment to installation site; all devices are field adjustable.*

### Upwards Communication

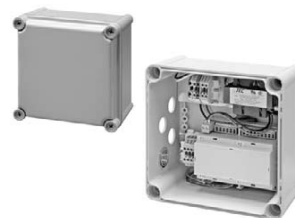
- to Building Automation Systems
- Optional couplers
  - BACnet, LON or Modbus

### Remote Relay / Analog Outputs

- RS-485 modules
  - (2) relays and (1) 4-20 mA, bus DC powered
  - (5) relays and (2) 4-20 mA, 120 VAC powered



**Bus Repeater / Power Booster**



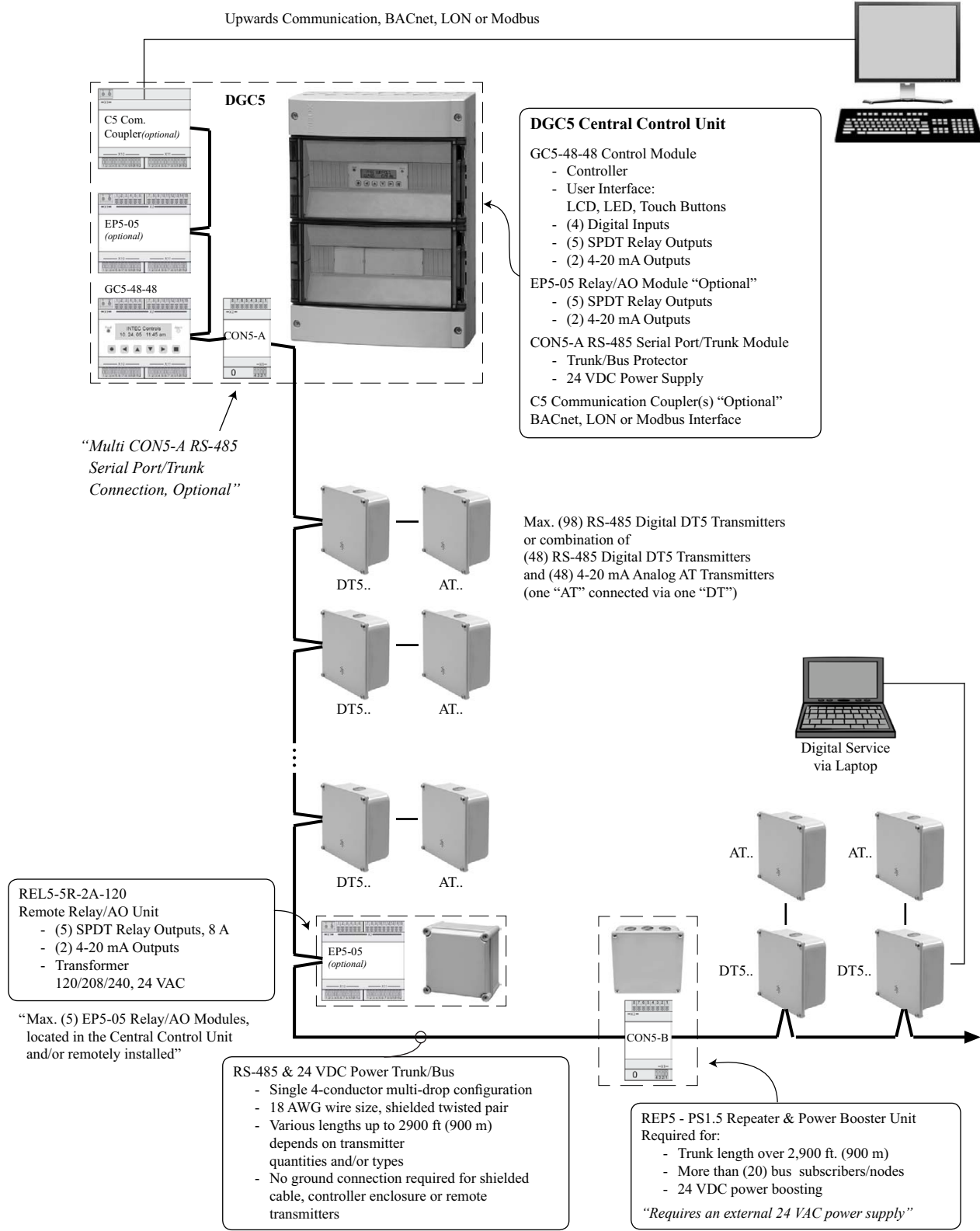
**Remote Relay / Analog Outputs**

### Repeater / Power Boosters

- Modules to extend bus length
  - RS-485 communication repeater
  - VDC power booster
  - 24 VAC

*INTEC Wilson Mohr provides compatible quality controls, peripherals and interface devices to the HVAC Controls, Energy Management and Building Automation markets.*

## ... DGC5 System Overview Layout



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