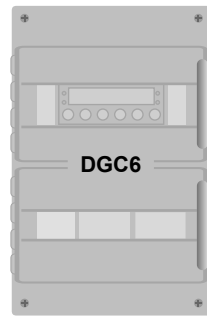


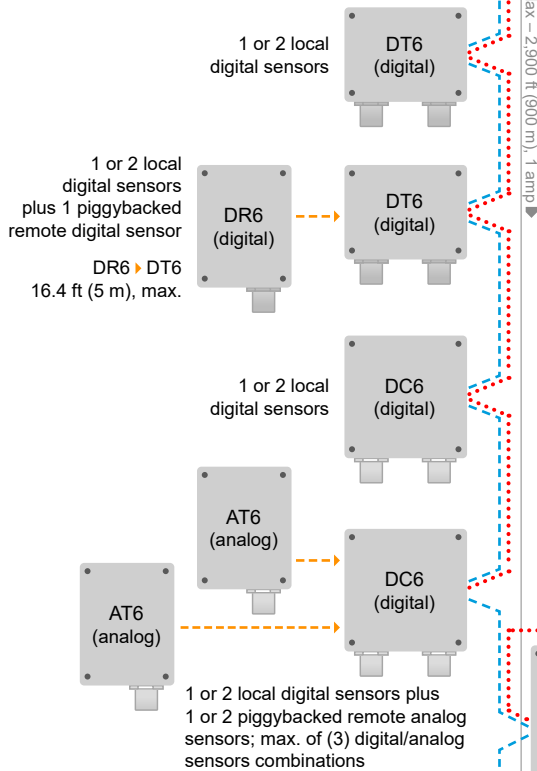
PolyGard®2 DGC6 Multi-Point RS-485 Digital Gas Detection and Control System Network Overview

Up to 96 PolyGard®2 daisy-chained digital sensors (DT6-/DR6-/DC6-Series), or combination of DC6 digital sensors with piggybacked AT6 analog sensors

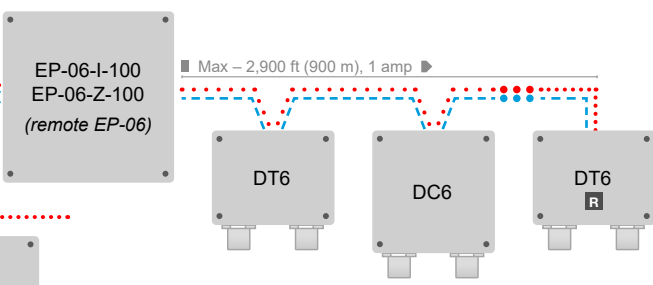
1 or 2 digital sensors for DT6- or DC6-Series;
 1 digital sensor for DR6-Series;
 1 analog sensor for AT6-Series



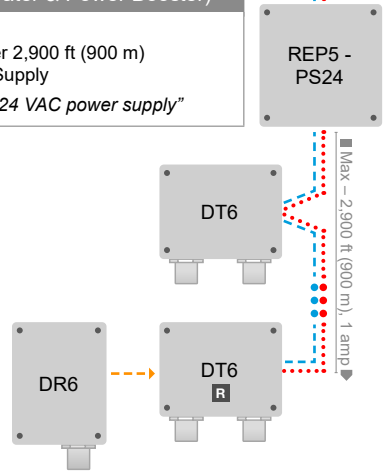
- DGC6 Central Control Unit**
- GC-06 Built-in Controller Programming Module
 - User Interface: LCD, LED, Touch Buttons
 - Trunk/Bus Protector
 - 24 VDC Power Supply
 - (4) Digital Inputs
 - (4) Digital Alarm Relay Outputs
 - (2) Analog (4-20 mA) Outputs
 - CON5-A RS-485 Trunk Module, *optional*
 - Trunk/Bus Protector
 - 24 VDC Power Supply
 - EP-06 Trunk/Relay/AI/AO Expansion, *optional*; (5) additional internal modules max., assigned to system as EP-06-01, EP-06-02, EP-06-03, etc.
 - Trunk/Bus Protector
 - 24 VDC Power Supply
 - (4) Digital Alarm Relay Outputs
 - (2) Analog (4-20 mA) Outputs
 - BACnet-IP Gateway Coupler, *optional*
 - Modbus RTU Interface, *optional*



- EP-06 Remote Relay/AI/AO Expansion Module**
- Power booster, comm signal booster, AR & AO outputs
 Simulates "t-drop" wiring configurations
 Start a new trunk segment
- Required for:
- Trunk length over 2,900 ft (900 m)
 - 24 VDC Power Supply
- Each module also provides:
- (4) Digital Alarm Relay Outputs
 - (2) Analog (4-20 mA) Outputs
- EP-06-I-100 requires an external 24 VDC power supply
 EP-06-Z-100 includes an internal 24 VDC power supply



- REP5-PS24 (Repeater & Power Booster)**
- Required for:
- Trunk length over 2,900 ft (900 m)
 - 24 VDC Power Supply
- "Requires an external 24 VAC power supply"

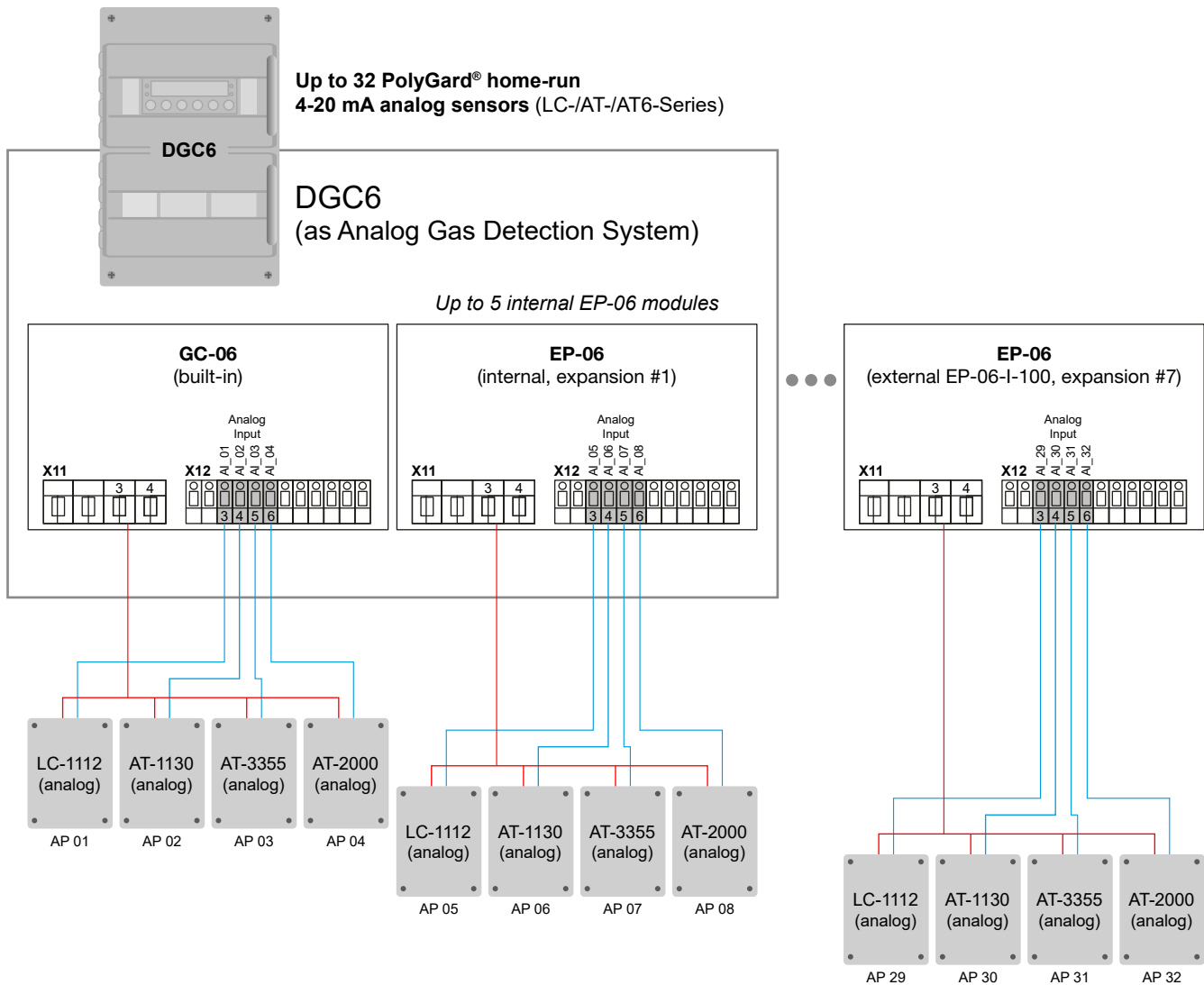


Cabling & Wiring Guidelines

- RS-485 Com Link & 24 VDC Power Trunk/Bus:** Connect Air #W202P-2288INTEC cable or equivalent recommended; 20 AWG, 4-conductor, one shielded twisted pair (for comm), all wires different colors
- Daisy-Chained Wiring Configuration,** trunk-splitting of the communication lines possible only with *optional* remote EP-06 modules; see specific datasheets for detailed wiring diagrams
- Max. total (7) EP-06 modules (internal or remote) allowed on the network
- New trunks could originated from multiple sources: DGC6 Controller, internal/external CON5s, and int/ext EP-06 modules; not to exceed 8 total trunks

R = 560 Ω end-of-line terminating resistor

PolyGard®2 DGC6 Multi-Point Analog Gas Detection and Control System Network Overview



Cabling & Wiring Guidelines

- **Analog Link & 24 VDC Power Trunk/Bus:**
4-20 mA signal devices; two wires, different colors
- **Home-run Wiring Configuration Only**
- Max. total (7) EP-06 modules (internal & external) allowed; not to exceed 8 total trunks

External } **Part # EP-06-I-100**

Address Assignment Table EP-06 Modules

EP Number	EP Address	AP Address	Relay Number	Analog Output Number
01	01	05-08	05-08	03-04
02	02	09-12	09-12	05-06
03	03	13-16	13-16	07-08
04	04	17-20	17-20	09-10
05	05	21-24	21-24	11-12
06	06	25-28	25-28	13-14
07	07	29-32	29-32	15-16