

D2000M

Intrinsically Safe Multiplexer

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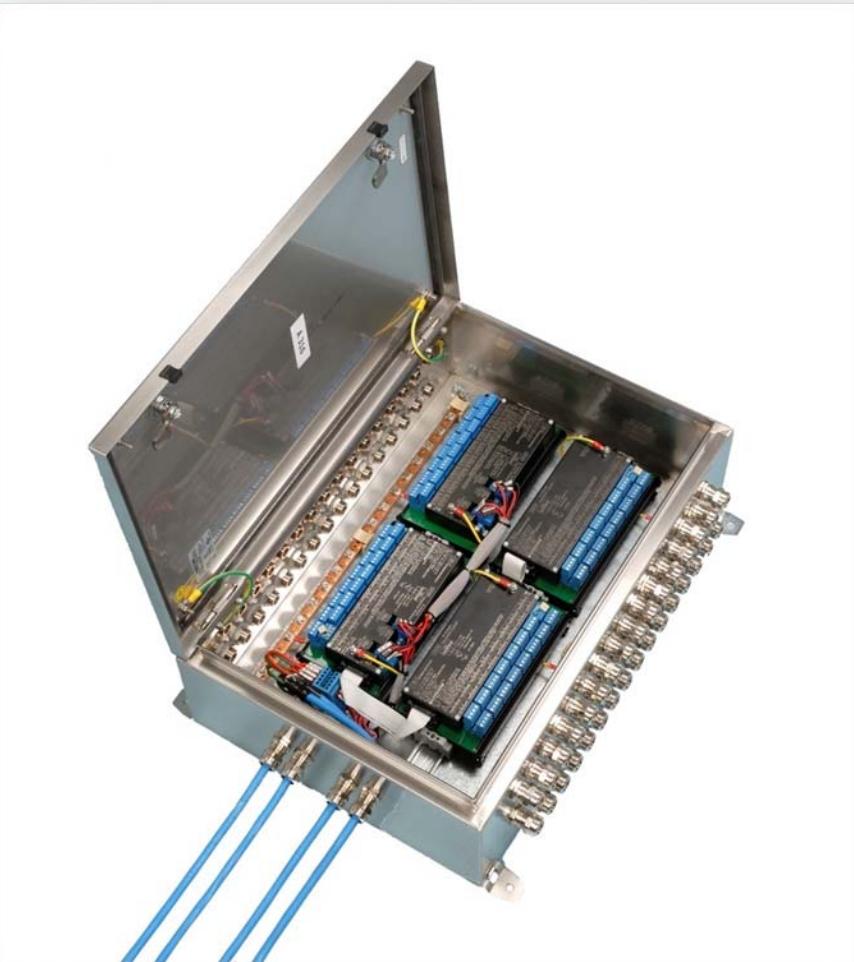
Technology for Safety



D2000M Multiplexer System

Temperature &
Digital Signals
Multiplexer

Certified for
Installation in Zone
1, Div.1 and 2

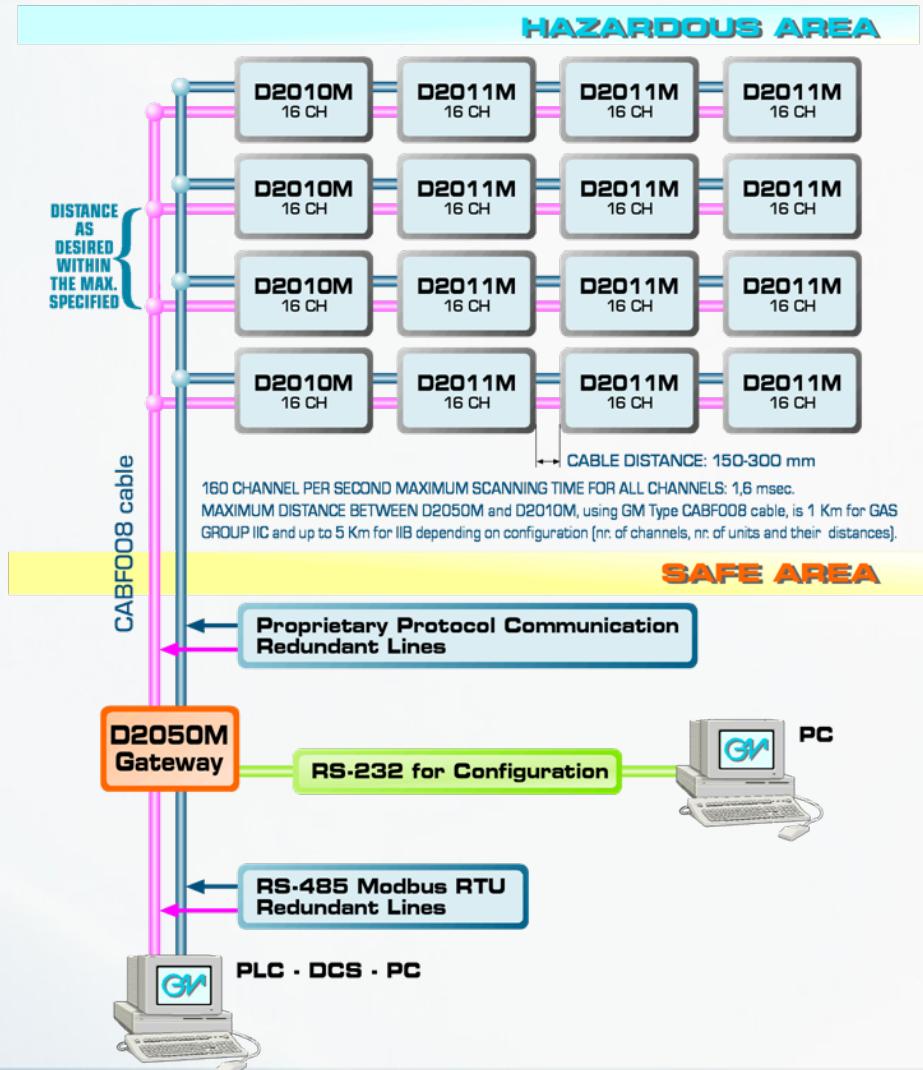


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D2000M Multiplexer System

- High density, up to 256 Analog Inputs and up to 128 Digital Inputs on the same 2-wires (expandable up to 7936 inputs adding more Gateways and field lines)
- Input sensors: Thermocouples, 2-3-4 wire RTDs, Potentiometers, Ohms, mV, mA. Voltage Free Contacts and Proximities.
- Robust Isolation (500V channel to channel), provides high immunity against interference and ground loops

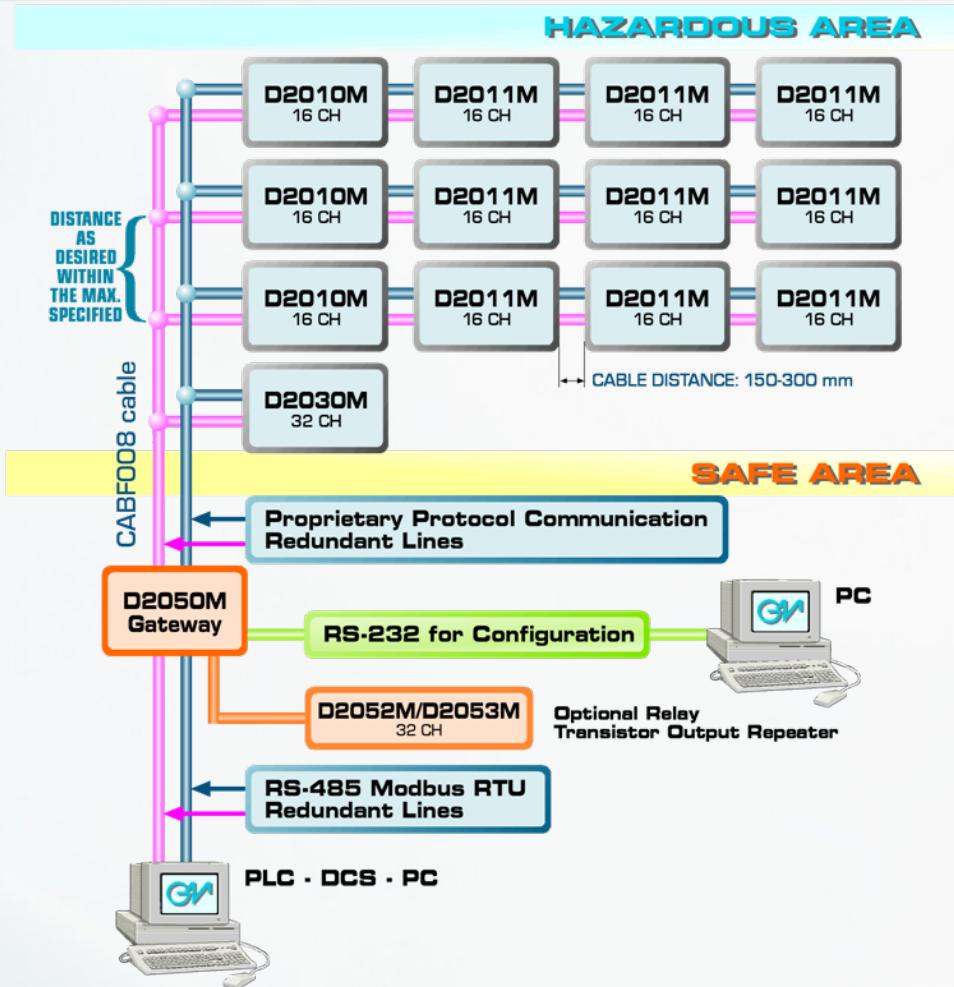


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D2000M Multiplexer System

- Intrinsically Safe Inputs from Div. 1 & 2
- Intrinsically Safe for installation in Div. 1 & 2
- Field Units can be placed up to 3 miles from Gateway in Group A-B or 0,65 miles in Groups C-G without complex calculations
- High Accuracy 18bit A/D converter
- Redundant communication lines
- Programmable via PC (RS232) and Modbus (RS485)

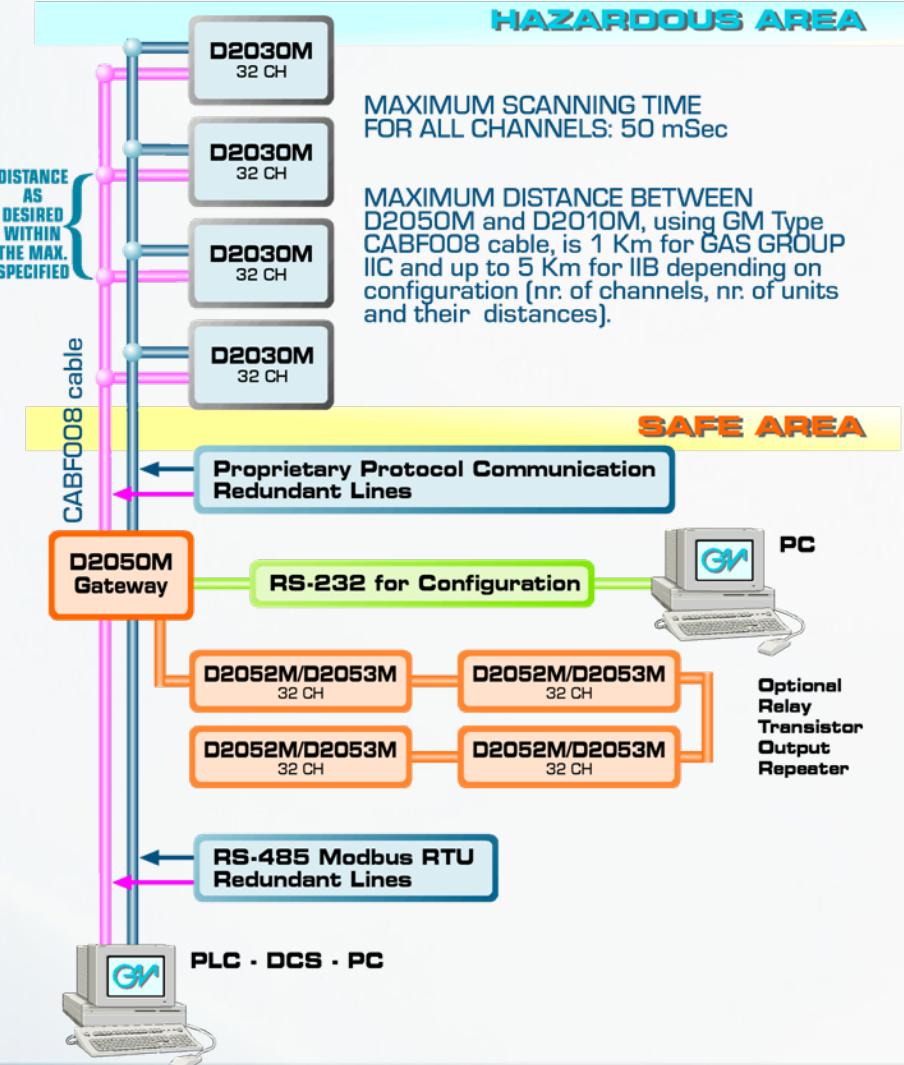


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D2000M Multiplexer System

- Drastically reduces and ease Field Wiring and Installation costs.
- Eliminates the need of expensive PLC - DCS Input Cards.
- Field Unit operating temperature: -40 to +60°C.
- Field units do not require approved enclosures or power supply.
- Field Communication line also provides power to units.

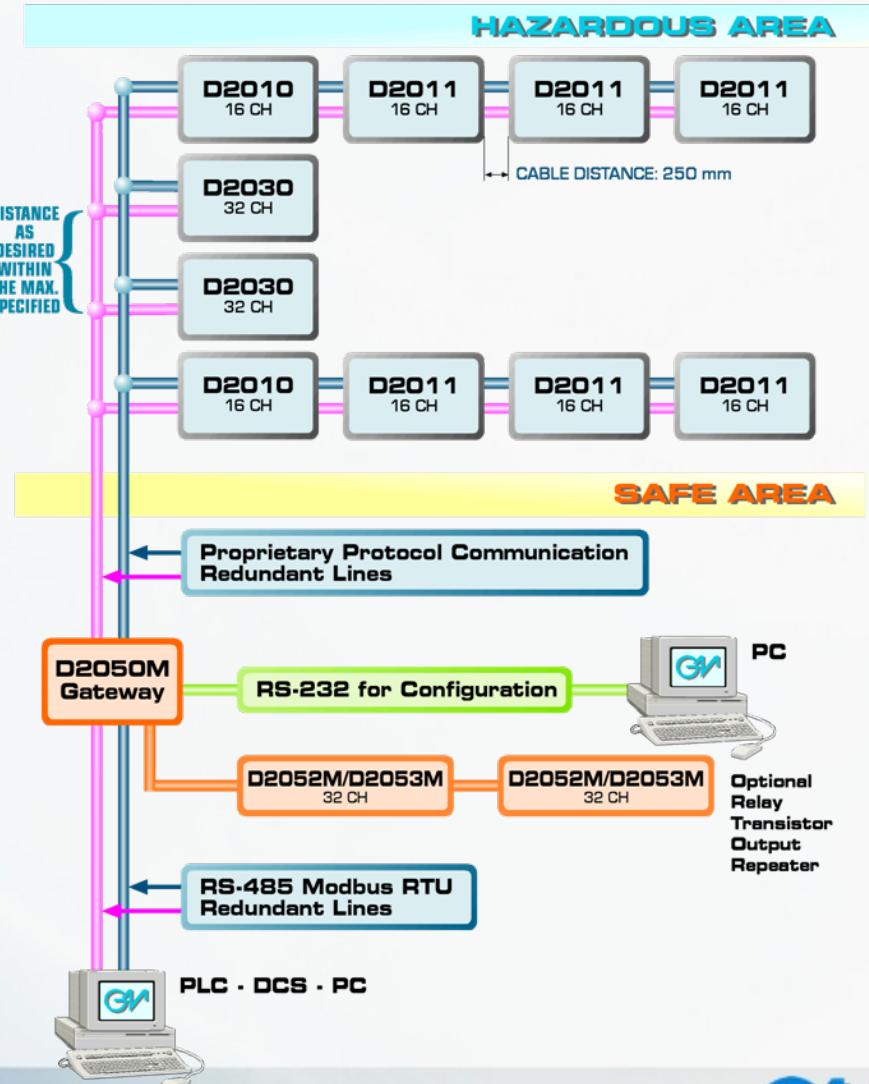


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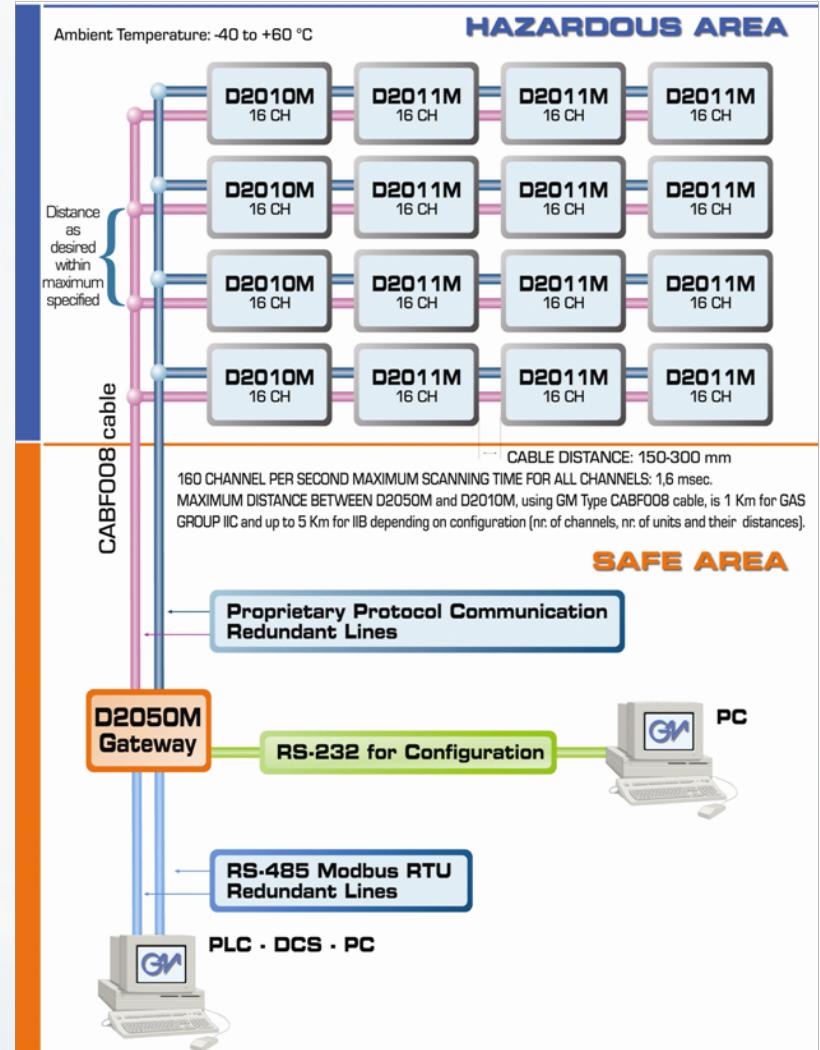
D2000M Multiplexer System

- Repeats input contacts via Relays (D2052M) or Transistor Outputs (D2053M) (De-Muxing)
- Gateway D2050M can be installed in Zone 1 / Div. 1 by using an explosion proof enclosure
- Custom designed Stainless Steel or Painted Steel Enclosures are available for field units (Series GM2300)
- Custom designed Communication Cable is available (GM CABF008)



D2000M Multiplexer System

Example configuration for:
256 Temperature Inputs

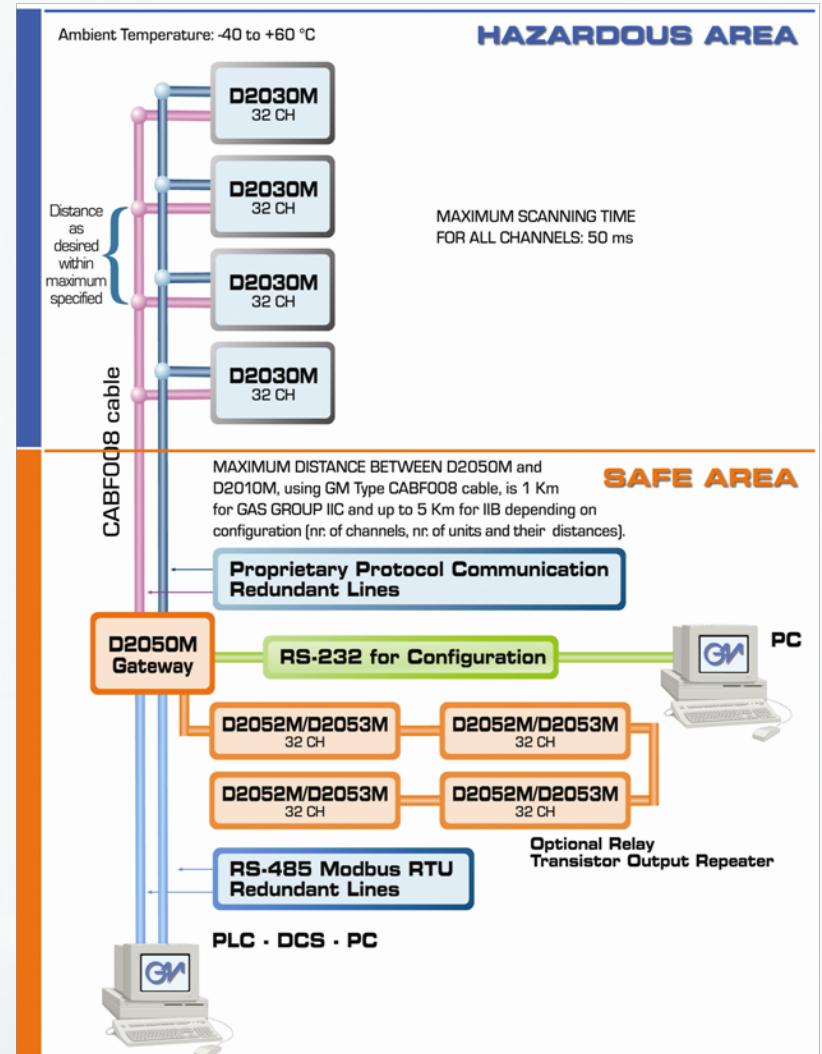


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D2000M Multiplexer System

Example configuration for:
128 Digital Inputs &
128 Digital Repeat Ch.

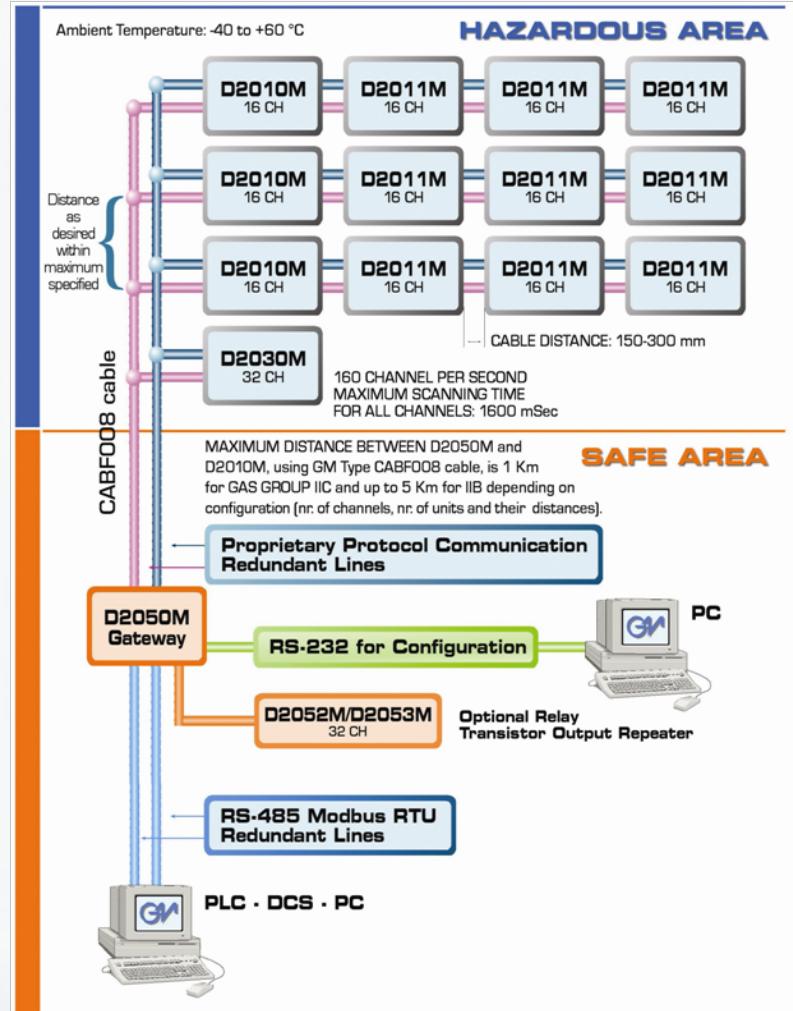


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D2000M Multiplexer System

Example configuration for:
192 Temperature &
32 Digital Inputs &
32 Digital Repeat Ch.

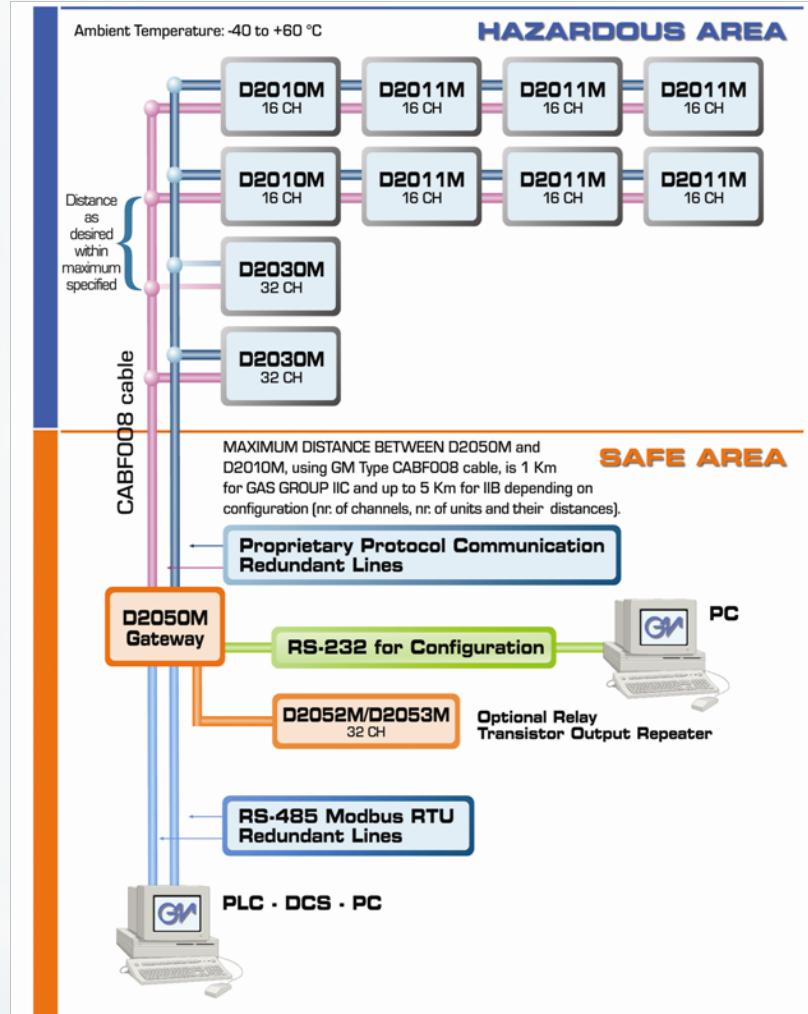


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D2000M Multiplexer System

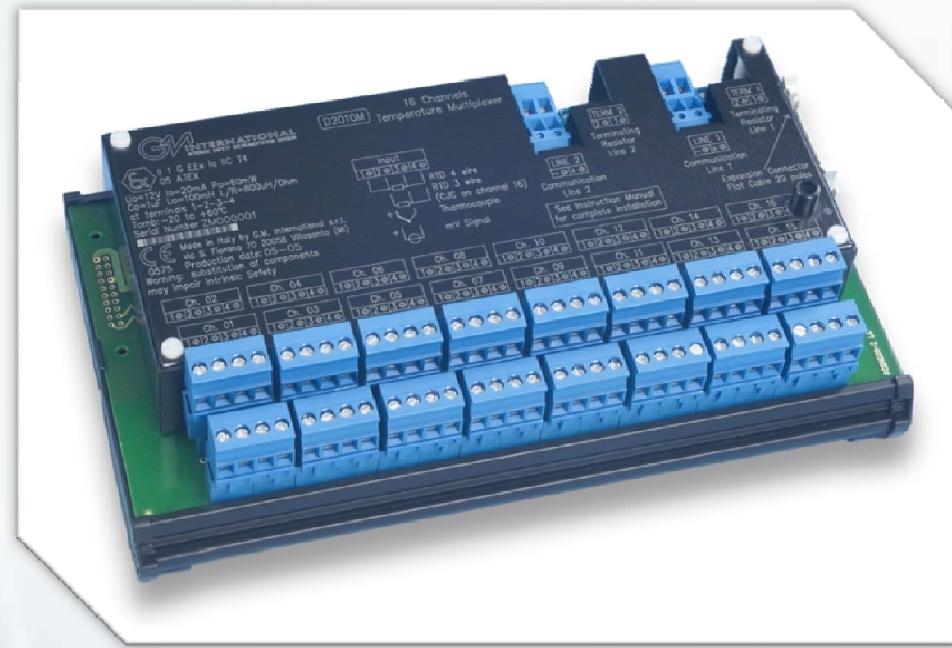
Example configuration for:
128 Temperature &
64 Digital Inputs &
32 Digital Repeat Ch.



Model: D2010M

Analog Input Module: 16 Input Channels

- 2-3-4 wire RTD:
Pt100, Pt50, Ni100,
Cu100,Cu53, Cu50,
Cu46.
- Thermocouples A1, A2,
A3, B, E, J, K, L, Lr, N,
R, S, T, U.
- Ohms, mV or mA
- Expandable to 64 Ch
with D2011M
- II (1) 2G EEx ia IIC T4



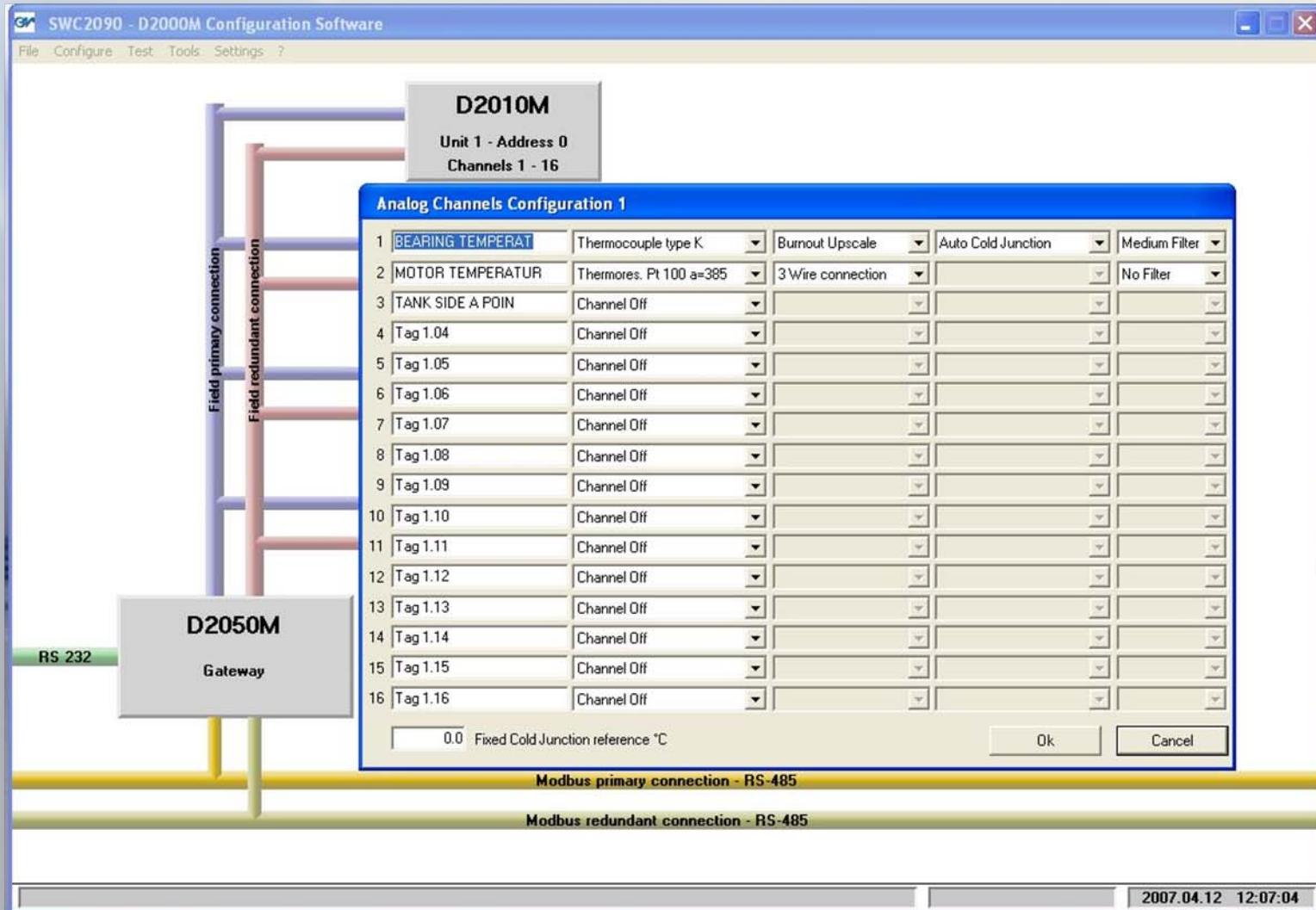
Model: D2011M

Analog Input Expander: 16 Input Channels

- Expansion for:
D2010M Module
- II (1) 2G EEx ia IIC T4



Analog Configuration Software



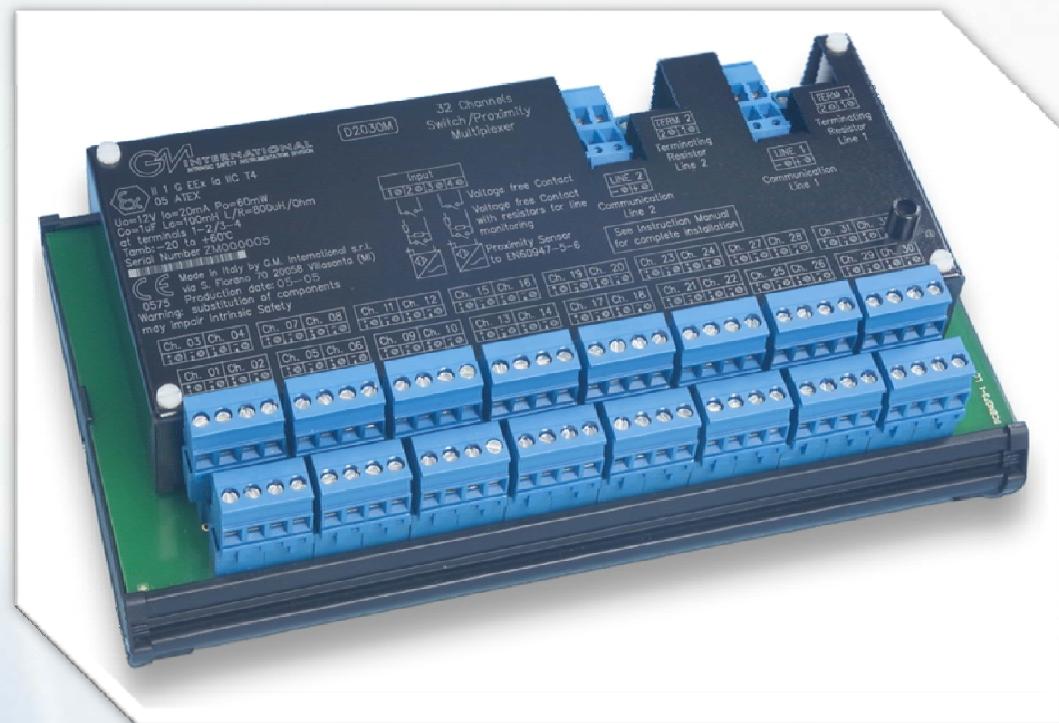
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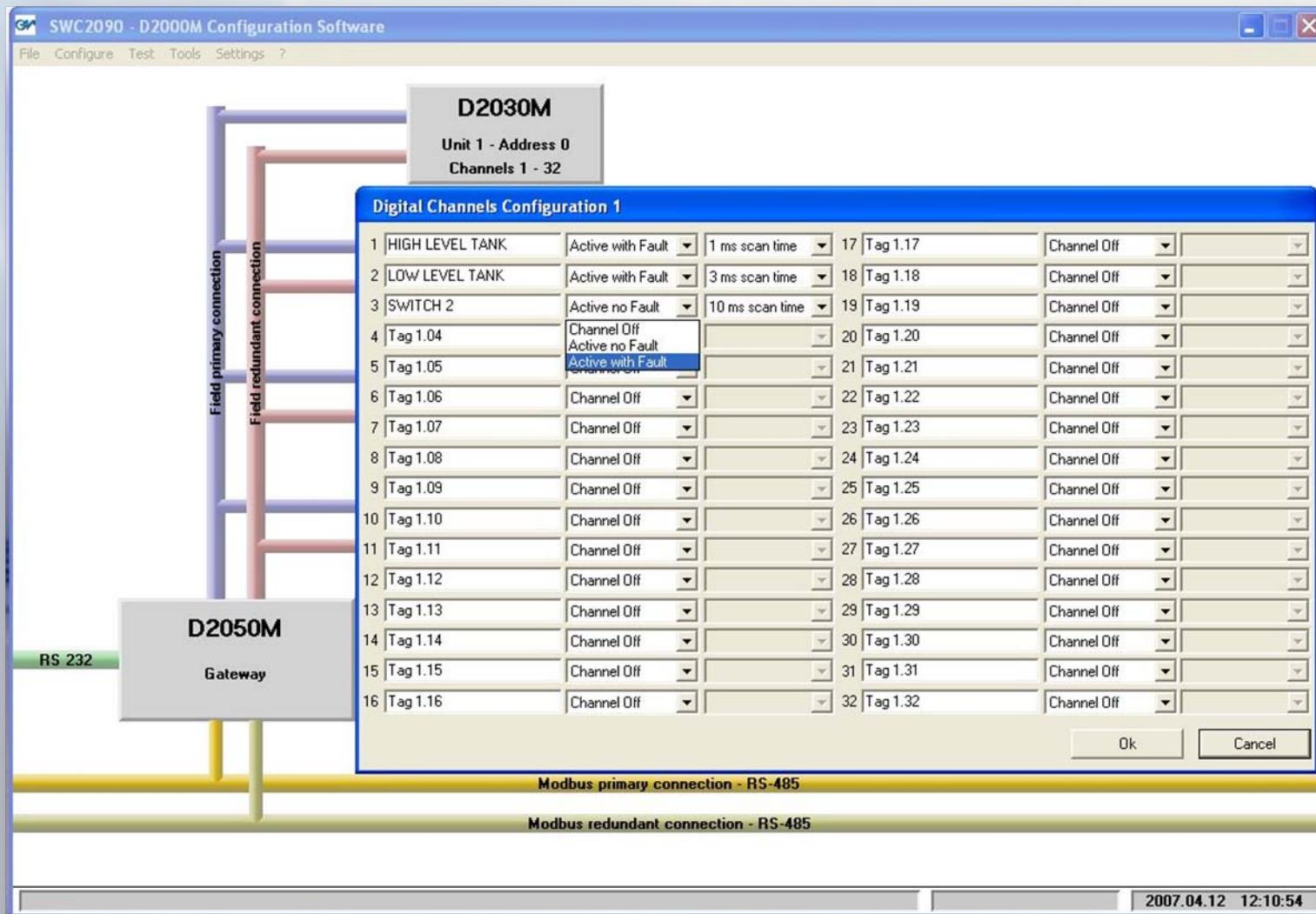
Model: D2030M

Digital Input Module: 32 Input Channels

- Contact
- Proximity Switch
- II (1) 2G EEx ia IIC T4



Digital Configuration Software



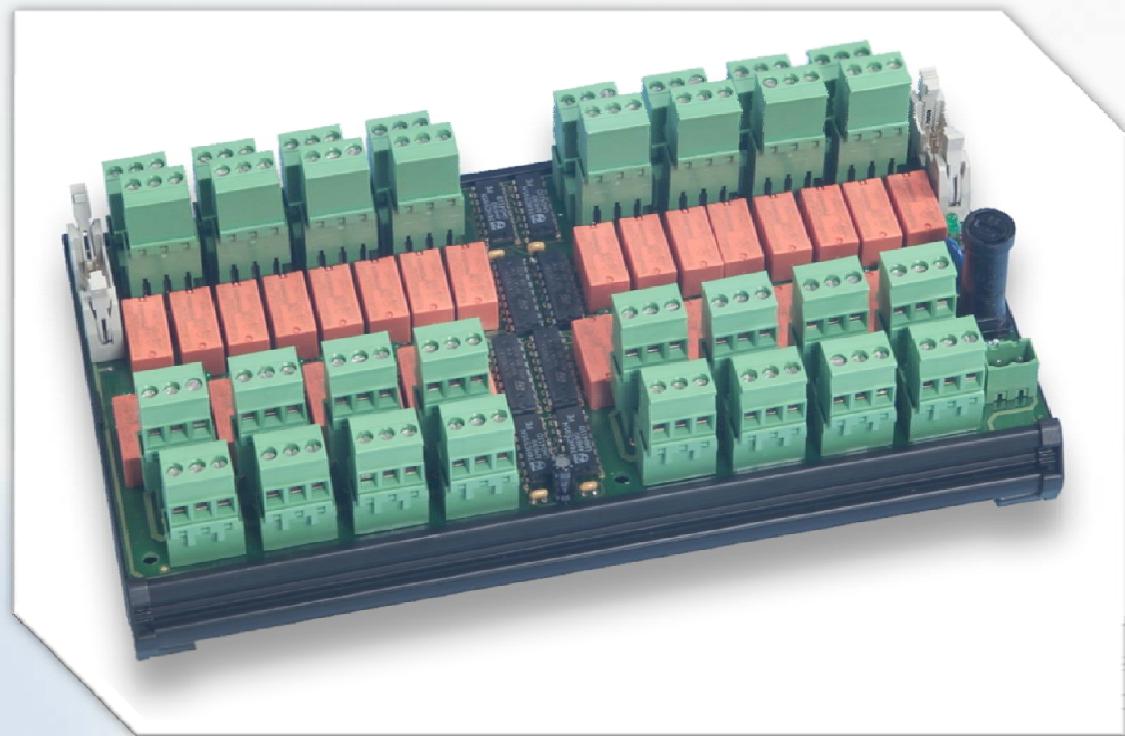
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Model: D2052M

Repeater: 32 Contact Outputs

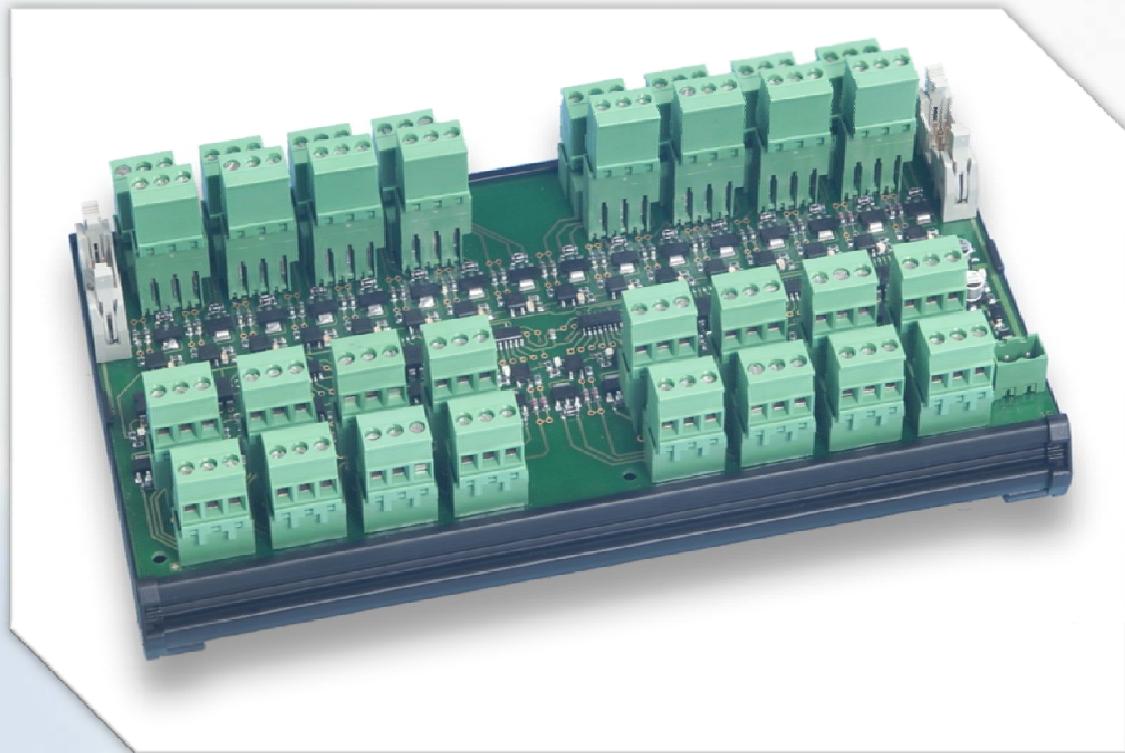
- Expandable to:
128 Channels



Model: D2053M

Repeater: 32 Transistor Outputs

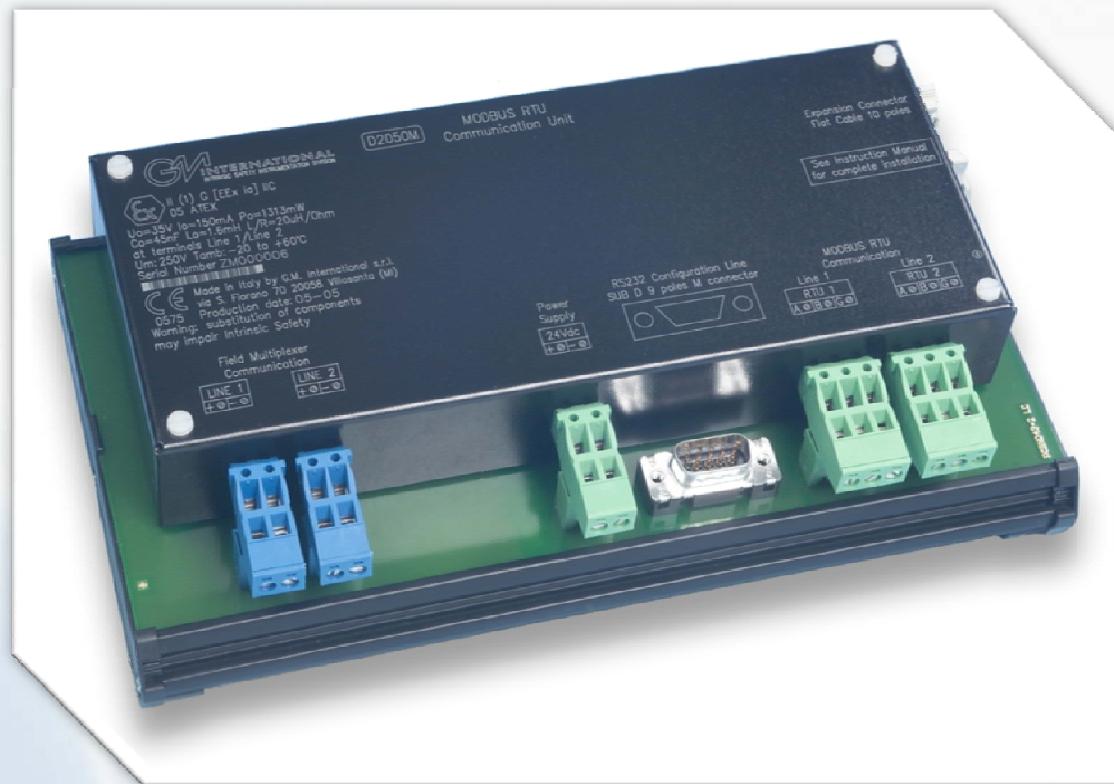
- Expandable to:
128 Channels



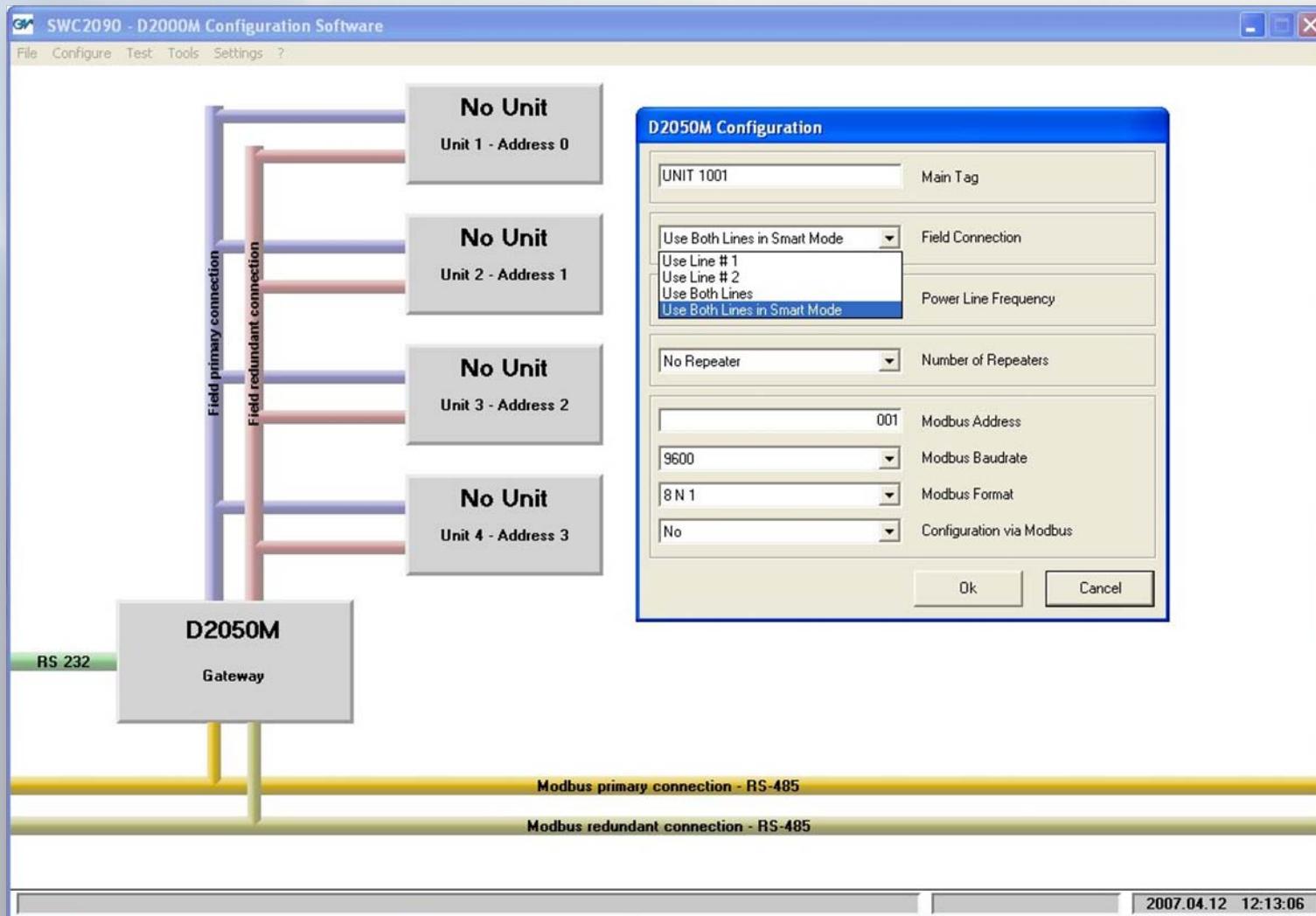
Model: D2050M

Gateway: up to 256 Input Channels

- Dual Modbus Output
- Redundant Field Connection
- 24 Vdc Supply
- RS232 PC Line for Configuration
- II (1) G [EEx ia] IIC



Digital Configuration Software



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