S E R I E S



U N I V E R S A L M A R S H A L L I N G





Universal integrated marshalling

The Series X1 Dragon consists of a comprehensive solution for interfacing customers systems with a complete range of modules. The compact design of the board and its modules reduce cabinet utilization and therefore lower costs. Installation and maintenance are facilitaded thanks to innovative characteristics of the system.

Modules are available for all field signal types, both analog and digital, together with safety relays. Intrisically safe loops can also be interfaced, and the board itself can be installed in Zone 2 / Div 2.

Solutions for 8, 16 or 32 channels I/O cards can be customized to suite all specific requirements.

The whole series is SIL 2 / SIL 3 certified, ensuring the highest reliability in extreme applications.



Fail-proof architecture

Polarization keys ensure correct insertion on each module on the board, therefore preventing dangerous misplacements.

The gateway is able to identify each module's unique ID and characteristics (AI, AO, DI, DO, Pass-through).

Fully redundant on-board 24Vdc power supply.

Functional safety is achieved on all modules via SIL3 and SIL2 certifications according to IEC61508, ensuring the highest levels of reliability and system uptime.

Smart features

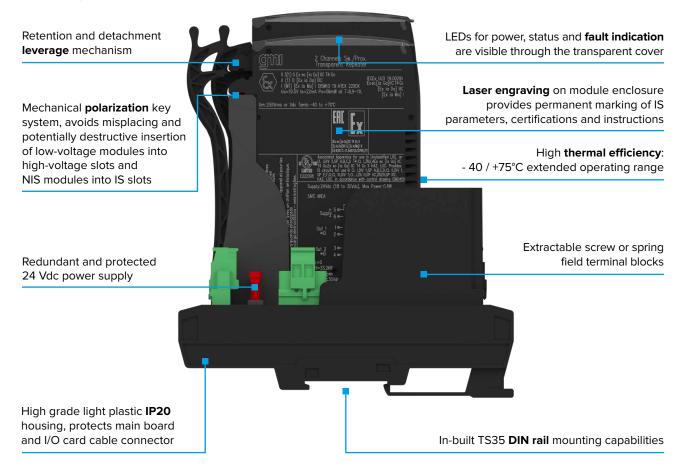
A single remote access point allows for identification, configuration, monitoring and SIL3 HART multiplexing via multiple industrial protocols.

Fault diagnostics for each channel are transparently acquired by the I/O card.

Configuration of modules is achieved by Modbus protocol through the gateway.

Multiple boards can be daisy-chained and remotely connected.

Design



Dimensions

Smaller overall dimensions allow for more efficient space utilisation in the control room



Dragon lever system

The two-step lever retention mechanism firmly holds the module to the socket when latched in two positions







Switch from operation to maintenance position



Maintenance position

Models

The following models can be mixed on the same board to obtain the desired I/O configuration. All models are isolated except for NIS-PAS.

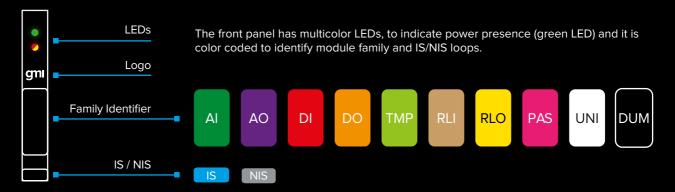
Intrinsically Safe

Family	Description	SIL level
IS-AI	Analog Input + HART ®	3
IS-AO	Analog Output + HART ®	2
IS-DI	Digital Input	3
IS-DO	Digital Output	3
IS-TMP	Temperature	2
IS-UNI	Universal	2

Non Intrinsically Safe

Family	Description	SIL level
NIS-PAS	Pass-Through	3 or Non SIL
NIS-AI	Analog Input + HART ®	3
NIS-AO	Analog Output + HART ®	2
NIS-DI	Digital Input	3
NIS-DO	Digital Output	3
NIS-RLI	Relay Input	3
NIS-RLO	Relay Output	3 or Non SIL
NIS-TMP	Temperature	2
NIS-UNI	Universal	2

Labels color and coding



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