

INGESYS

GW

Communication Gateway for Rolling Stock Applications



INGESYS™ GW meets the interconnection requirements of smart devices in trams and trains in the most common train communication networks.

Its compact, robust design, compliant with the EN50155 and EN45545-2 standards is adapted to the mechanical, environmental and protection requirements of the railway sector.

Communication gateway compliant with railway standards

INGESYS™ GW allows selecting different communication interfaces between different elements (both the physical medium to use and the required communications protocol) depending on the needs of each application.

The INGESYS™ GW offers the interconnection of the following communications interfaces: RS232, RS485, CAN, MVB/WTB, ETHERNET UDP, TCP/IP, TRDP, ETHERNETIP, CIP, PROFINET, WiFi and GSM.

It has a modular architecture in which the user can select up to 4 serial links and 3 ethernet links. Optionally, it offers the possibility of incorporating local I/Os enabling its access from the train communication network.

Together with the programming tools which are compatible with the IEC61131-3 standard, a comprehensive communication function library enables the adaptation of the system to the specific needs of the application.

The built-in web server enables also the diagnose, parameterise and monitor the system easily and flexibly to suit the user needs.

Benefits

- ✓ Large number of physical media and protocols
- ✓ Flexibility and adaptability
- ✓ Compliance with railway standards

	Main Features
Main Power Supply	24Vdc (+25% / -30%) Class S1 (EN 50155:2007) 110Vdc (+25% / -30%) Class S1 (EN 50155:2007) 24V @ 300mA / 110V @ 80mA
Processor	32-bit CPU IEC61131 programmable
Field Bus Interfaces	Up to 4 DB9 ports CANOPEN (Master/Slave), RS232/RS485, MVB ESD+/EMD, and MVB OGF interfaces Node address selection using rotary switches (optional)
Ethernet Interfaces	Up to 3 x 10/100Base TX Ethernet ports, M12 connectors Protocols: UDP, TCP/IP, Modbus TCP/IP, TRDP, Ethernet IP/CIP, PROFINET I/O Link status and link speed status LEDs
Wireless Interface	3G, 4G, WiFi according to standard 802.11 a/b/g/n
Additional Local I/Os	Analog and digital inputs/outputs
Monitoring and Maintenance	Built-in web server for diagnostics and parameterisation Firmware download via USB
Climatic Conditions	Temperature: -40°C to +70°C (EN50155:2017 TX) Humidity: 30% to 95% (EN50155:2017 Damp Heat Cyclic Test)
Standards	EN50155:2007, EN45545-2:2013
	Mechanical Features
Assembly	Panel, Din Rail
Enclosure	Aluminium, IP20, Weight 390g
Dimensions (H x W x D)	149mm x 135mm x 34.6mm 186.5mm x 135mm x 34.6mm (with additional PROFINET) (149mm + (n* 37.5mm)) x 135mm x 34.6mm (with n additional I/O modules)

The technical data in this catalogue is subject to change without prior notice. FY76IPT01A /1121