

9660-PLC Intrinsically Safe PLC

Product Brief

The **9660-PLC** is designed for hazardous-area mounting inside a suitable enclosure with **Intrinsically Safe Zone 1**, ATEX and IECEx certification and Division 1 FM USA and Canada approvals. The ATEX and IECEx approvals cover both surface industry and mining application. Certified for use in Group 1 and Group II (Zone 1 &2). The PLC can be operated in a wide temperature range of -20°C to $+70^{\circ}\text{C}$.



Dimensions : 75 x 100 x 116 mm. DIN Rail Module

Hardware – ARM9 RISC 32 bit processor 155MHz, 32 Mb Ram, 1MB Flash, 10/100Mb Ethernet Port. The PLC may be powered by an intrinsically safe power supply or by Power over IS Ethernet (PoEx) providing intrinsically safe power and Ethernet communications over a single Cat5e cable.

Soft PLC – Isagraf V5, PLC loop times fixed at 25mSecs, PLC to PLC communication, Download and Upload PLC configuration, Remote Debugging from Safe Area via Ethernet to a PC.

Soft PLC – supports the following programming languages:

Ladder Logic, Function Block, Sequential Function Chart, Structured Text, Instruction List, Flow Chart.

The I/O connection to the PLC is achieved by interfacing to other 9600 series I/O Modules via an Ethernet communication fail safe link. These I/O Modules include:

- 9620 Namur Digital Input Output Module
- 9630 Analogue Input Module
- 9632 Temperature Input Module
- 9645 Relay Output Module

Four Serial Communication Ports are available for serial remote I/O connection. Two 9-way D-type serial ports are provided which are RS232/TTL compatible. In addition, the module's front panel screw terminals (T6 - T15) provide two RS485/ RS422, 2- or 4- wire ports, giving a total of four serial ports. All ports can operate at speeds up to 115K baud rate.

9660 has been used in Over 100 Applications worldwide. These include the control and monitoring of the following applications:

- Conveyors
- Pumps
- Tripper Drives
- Booster Fans
- Main and Standby Ventilation Fans
- Methane Drainage Plants
- Switchgear Control