Metasys Integrator® 3500 Series

Description

The Metasys Integrator® 3500 Series (MIG3500) product connects third-party devices to the Metasys® Building Automation System (BAS). With the MIG3500 networked to Metasys system, operators can monitor and control third-party devices along with the entire BAS.

The MIG3500 is functionally the same as the MIG300 Series. It supports the same set of vendor interfaces and uses the same configuration tool as the MIG300 Series. Similar to the MIG300, the newer MIG3500 offers an RS232 port, but also has a native RS485 port, providing a direct connection to vendor equipment without the need of a signal converter.

Communication with vendor equipment occurs between the MIG3500 and a supervisory controller via the N2 Bus. All vendor points are mapped to the controller and are viewable at the Metasys single-set user interface. No additional gateways or interface devices are required. The Metasys user interface offers a comprehensive view of the entire system, down to the vendor point level.

Refer to the *Metasys Integrator 3500 Series Product Bulletin (LIT-12011440)* for important product application information.

Features

- Investment protection — extends the use of existing equipment and allows time to implement migration strategies
- Vast selection of reliable, tested third-party product integrations — ensures the likelihood that your third-party equipment can be integrated to the Metasys system
- Third-party devices integrate as standard points with access to Metasys features — reduces the training and support for features such as commanding, trending, point history, alarm management, and control logic, while simplifying operations and improving management efficiency
- Single-seat user interface — eliminates the need for third-party workstations, reducing operating and support costs
- Continued migration strategy for older Metasys components — extends integration and migration capabilities across different Metasys supervisory controller products
- Easy MIG300 Series Integrator replacement — provides for a manageable strategy for replacing older Metasys Integrator models or continuing to integrate third-party devices to existing Metasys systems.

MIG3500 Series Metasys Integrator

Applications

The MIG3500 connects third-party devices to the Metasys system via the N2 Field Bus. This assures a stable and long-term investment for both building owners who already have a Metasys system and third-party suppliers. Any sized system applies, whether connected to a very large system or a small system; the connectivity advantage is clear.

The MIG3500 provides for the needs of any facility, large or small. The entire Metasys family of products affirms Johnson Controls® position as a leader in the building automation industry and as an innovator of solutions for the complete management of buildings.

Repair Information

If the MIG3500 fails to operate within its specifications, replace the unit. For a replacement MIG3500, contact the nearest Johnson Controls representative.

Selection Chart

Code Number	Description
MS-MIG3520-0[1]	Metasys Integrator 3500 Series: Requires a 24 VAC power supply. Each model includes two RS-232-C serial ports, one Ethernet port, one N2 Bus port, one RS-485 port, and a battery.
MS-MIGSWO-1	Metasys Integrator software with latest version of all downloadable drivers/tables used to commission MIG3500.

1. For the European version, add an E after the code number. For repair parts, replace the **-0** suffix with **-700**.

Accessories

Code Number	Description
Y65T31-0	Power transformer (Class 2, 24 VAC, 40 VA maximum output), no enclosure
AS-XFR050-0	Power transformer (Class 2, 24 VAC, 50 VA maximum output), no enclosure
EN-EWC25-0	Standard enclosure with dimensions: 406 x 406 x 190 mm (16 x 16 x 7.5 in.)
MM-CVT101-0	RS232 to RS485 Converter (old style)
AS-CVTPRO300-1	Zone Bus/N2 Bus Interface Converter with 120 VAC/3 VDC External Power Adapter (North American version)
IU-9100-8401	RS232 to RS485 Interface Unit (European use only)

Technical Specifications

MIG3520-0 Metasys Integrator	
Power Requirement	Dedicated nominal 24 VAC, Class 2 power supply (North America), Safety Extra-Low Voltage (SELV) power supply (Europe), at 50/60 Hz (20 VAC minimum to 30 VAC maximum)
Power Consumption	25 VA maximum
Ambient Operating Temperature	0 to 50°C (32 to 122°F)
Ambient Operating Conditions	10 to 90% RH, 30°C (86°F) maximum dew point
Ambient Storage Temperature	-40 to 70°C (-40 to 158°F)
Ambient Storage Conditions	5 to 95% RH, 30°C (86°F) maximum dew point
Battery	Panasonic® CR 2025 - Lithium non-rechargeable battery: 3.0 V 160 mAh, with a typical life of 5 to 7 years at 21°C (70°F)
Processor	192 MHz Renesas™ SH4 7760 RISC 32-bit processor
Memory	128 MB Flash nonvolatile memory 128 MB Synchronous Dynamic Random Access Memory (SDRAM)
Operating System	Microsoft® Windows® CE embedded Release 5.0
Network and Serial Interfaces	One Ethernet port; 10/100 Mbps; 8-pin RJ-45 connector One optically isolated RS-485 port; 9600 bps; pluggable and keyed 4-position terminal block (for N2 Bus connection) One optically isolated RS-485 port; pluggable and keyed 4-position terminal block (for vendor device connection) One RS232C serial port with standard 9-pin sub-D connector (for commissioning purposes only) One RS232C serial port with standard 9-pin sub-D connector (for vendor device connection)
Dimensions (Height x Width x Depth)	131 x 270 x 62 mm (5.2 x 10.6 x 2.5 in.) Minimum space for mounting: 210 x 350 x 110 mm (8.3 x 13.8 x 4.3 in.)
Housing	Plastic housing material: ABS + polycarbonate Protection: IP20 (IEC60529)
Mounting	On flat surface with screws on three mounting clips or a single 35 mm DIN rail (DIN rail mount recommended)
Shipping Weight	1.2 kg (2.7 lb)

Compliance	United States
	  UL Listed (PAZX), UL 916
	  FCC compliant, CFR47, Part 15, Class B
	Canada
	  UL Listed (PAZX7), CAN/CSA C22.2 No. 205
	  Industry Canada: ICES-003
	Europe
	  EMC Directive, 89/336/EEC
	Australia/New Zealand
	  C-Tick Mark, Australia/NZ Emissions Compliant