FIELD INSTALLATION QUICK GUIDE

Installation Instructions

8709-CA-08

Eight-module extended-address I/O carrier



PRODUCT	8709-CA-08
FAMILY	PAC8000 extended-address carrier
FUNCTION	Eight-module extended-address I/O carrier
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from General Electric documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

I/O module positions	Eight
Address bus capacity	64 slots
Compatible controller scope	8521-XX-XX controller/EBIM
Addressing exclusion	Cannot mix with 32-slot address carriers
Railbus connectors	Female input and male output
Field power connections	Two eight-pin connectors

02 PREPARATION AND CONNECTION

- Use only the documented 8521 controller/EBIM address arrangement.
- Do not mix this 64-slot carrier with 32-slot-address carriers.
- Follow the two eight-pin field-power pin maps and Railbus direction.
- Preserve the isolated screen/shield earthing bar connections.

03

OFFICIAL INSTALLATION REFERENCE

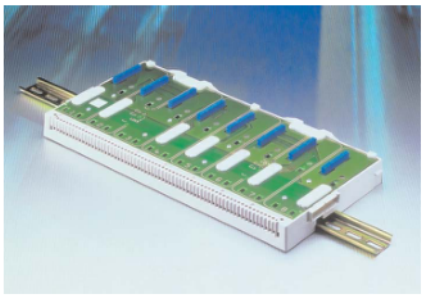
Module carriers

2-2

8-module carrier - extended addressing

8709-CA-08

- *64-slot address bus**
- *accepts up to eight I/O modules and field terminals*
- *printed wiring board*
- *rugged polycarbonate moulding*
- *DIN rail or panel mounting*
- *carries control signals and data on Railbus*
- *distributes DC power to modules*
- *distributes Bussed Field Power to modules*
- *isolated earthing bar for cable screens/shields*



CARRIER SPECIFICATION

See also System Specification

HAZARDOUS AREA APPROVALS

Location of carrier
.....Class 1, Div 2, Groups A, B, C, D T6 hazardous location or
.....Zone 2, IIC T6 hazardous location
Location of field wiring.....As carrier
Field terminals accepted.....General purpose, 2/2
I/O modules accepted..... General purpose, 2/2
Applicable standards:

- Factory Mutual Research Co., Class No. 3611 for Class I, Division 2, Groups A, B, C, D hazardous locations
- CSA Std C22.2 No. 213 for Class I, Division 2, Groups A, B, C, D hazardous locations
- ATEX Category 3 (for Zone 2 installation)to EN50021:1999 protection type 'n'

ELECTRICAL

Railbus connectors.....female in, male out
Module address range.....1–64
Bussed field power supply (optional)
Two 8-pin connectors are provided at the top rear of the carrier to connect power supplies for 'field power'. These supplies are routed through I/O modules that require power for their field circuits.

MATERIALS

Carrier moulding.....Modified poly-phenylene oxide
Printed wiring board.....Epoxy resin woven glass laminate

ENVIRONMENTAL

Ambient temp
Operating, ...– 40°C to + 70°C
Storage.....– 40°C to + 85°C
Relative Humidity.....5 to 95% RH (non-condensing)
Vibration and Shock.....See System specification

MECHANICAL

Dimensions.....342 (w) x 170 (d) x 22 (h) mm
Weight.....680 g
Mounting methods .....Flat panel or DIN rail
DIN-rail types
.....'Top hat' 35 x 7.5 mm rail or 35 x 15 mm rail to EN 50022
.....G-section rail to EN 50035

BUSSED FIELD POWER CONNECTIONS



Terminal		Function
1	}	I/O modules 1 & 2
2	}	–ve (or Neutral)
3	}	I/O modules 1 & 2
4	}	+ve (or Live)
5	}	I/O modules 3 & 4
6	}	+ve (or Live)
7	}	I/O modules 3 & 4
8	}	–ve (or Neutral)

Note: A second connector uses the same pin assignments for modules 5 & 6 and 7 & 8.

* *For use only with 8521-XX-XX controller/EBIM, and cannot be mixed with 32-slot address carriers*

GE Intelligent Platforms Contact Information
Americas: 1 800 433 2682 or 1 434 978 5100
Global regional phone numbers are listed by location on our web site at www.ge-ip.com/contact

www.ge-ip.com/process

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04 COMMISSIONING CHECKS

01	Verify eight positions and the extended-address carrier identity.
02	Inspect the selected flat-panel or listed DIN-rail mounting.
03	Confirm female-in and male-out Railbus connections.
04	Check both bussed-field-power connectors before energizing.
05	Verify module order, addresses and field-power polarity.
06	Prove each installed I/O module and its associated field circuit.

05 CONTROLLED DOCUMENT

Official source	MTL Instruments 8709-CA-08 Carrier Datasheet, July 2005.
Product record	8709-CA-08
Manufacturer	General Electric
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**