

16-Way Remote I/O Unit 16-Way Remote I/O Expansion Unit

9007
9008



DESCRIPTION

The 9007 Remote I/O Unit is designed for use in applications where monitoring and control of plant up to 3km from the GEM 80 host controller is required. Connected to the host controller via a Remote I/O Controller, the 9007 provides 8 inputs and 8 outputs.

System expansion is catered for by adding a 9008 Remote I/O Expansion Unit for each additional 8 inputs and 8 outputs required. With a combination of one 9007 and up to seven 9008's, a total of 64 inputs and 64 outputs can be provided.

In installations where space is limited and weight important, the modular design, robust construction and ease of installation make the combination of units an ideal choice.

Both units are powered from a local source. 110/240V ac or 24V dc.

FEATURES

- Suitable for high integrity/security industrial applications.
- Enables monitoring and control of plant equipment up to 3km from host controller.
- Light, robust construction.
- Watchdog safety contacts provided for plant circuits.
- DIN rail mounting for ease of installation.
- Automatic self-test.
- Internally derived 24V dc for Inputs.

16-Way Remote I/O Unit 9007
16-Way Remote I/O Expansion Unit 9008

SPECIFICATION

POWER SUPPLY : 200mA at
192 to 264V ac
300mA at
88 to 121V ac
2A at
19.2 to 28.8V dc

Indication : Red LED ON when
power is applied.

INPUTS

Type : Sink or Source.
24V dc 10mA per input.
(internally derived)

Indication : Red LED per input, ON
when an input is present

Voltage withstand : 1.5kV ac for 1 minute.

Noise immunity : NEMA ICS 2-230.

Response time : 20ms (max.) ON
15ms (max.) OFF.

OUTPUTS

Type : Relay contacts.
240V ac/24V dc (max)
at 2A resistive.

Indication : Red LED per output,
ON when an output
relay is energised.

Voltage withstand : 1.5kV ac for 1 minute.

Noise immunity : NEMA ICS 2-230.

Response Time : 10ms (max) ON
10ms (max) OFF.

Leakage current : 3.5mA at 21V 50Hz.

WATCHDOG. (9007 only)

Output type : Same as outputs above.

Indication : Green LED ON when
the unit is healthy and
communication
established with the
host GEM 80 controller.

SERIAL LINK

(From GEM 80 Remote I/O Controller Unit)

Signal/Baud rate : RS485/180 kbaud.

Indication : Yellow LEDs flashing
when there is activity
on the link.

Maximum Link Length : 3km.

INSTALLATION

Connections : Screw terminals.
Accommodate 2 x
2.5²mm wires.

Weight : 1.5kg.

Dimensions : 250 x 116 x 75mm.
(L) (H) (D)

Operating temperature : 0 to 55°C.

Storage temperature : -20 to 65°C.

Humidity : 5 to 95% RH.
non-condensing.

Fire Resistance : UL94 Class V0.

Tests : GEM 80 Standard

ORDERING CODES

16-Way Remote I/O Units.
24V inputs, relay outputs,
240V ac 9007-4001
110V ac 9007-4002
24V dc 9007-4003

16-Way Remote I/O Expanders.
24V inputs, relay outputs,
240V ac 9008-4001
110V ac 9008-4002
24V dc 9008-4003

Remote I/O Controller and Terminal Rail
for connection to host GEM 80 controller:
For Verification I/O based systems 9006-4001
For Basic I/O based systems 8982-4003

ADDITIONAL INFORMATION

Related information can be found in Publication
Number T445, Remote I/O System 8981/2 and
8863 and Publication Number T463 9006 and
8863 Remote I/O Verification System.

Further information and help on GEM 80 products
or applications can be obtained from:

or Your local GEM 80 representative,
GEM 80 Customer Service Dept.
Tel. 0782 783511. Ext. 2651 or 2574
International Code 44 782 783511

GEC Industrial Controls Ltd



Programmable Controllers Division
Kidsgrove, Stoke-on-Trent,
Staffordshire, ST7 1TW,
England.

Tel: (0782) 783511 Int. (44 782) 783511
Fax: (0782) 776329 Int. (44 782) 776329
Telex: 36293/4 GECICK G

Registered in England No: 2259095 Registered Office: Kidsgrove, Stoke-on-Trent, Staffordshire, ST7 1TW
 England. Holding Company: GEC Controls Ltd, Boughton Road, Rugby, Warwickshire, CV21 1BU, England

*Note: The Company's policy is one of continuous development and, therefore, the right is reserved
 to supply products which may differ in detail from those described and illustrated in this publication.
 All our products and materials are sold subject to Conditions of Sale available from us on request.*