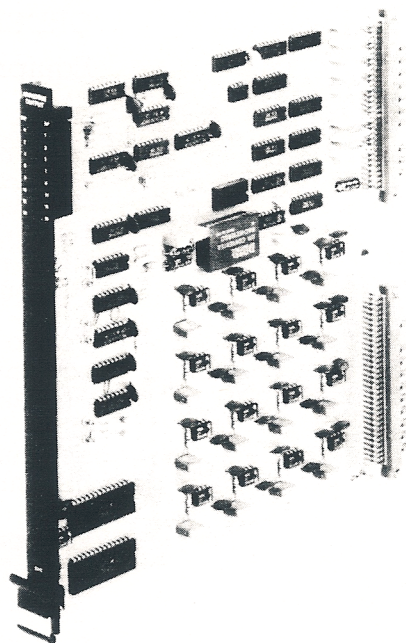


Analogue Output

8841



DESCRIPTION

The 8841 analogue output equipment interfaces from a GEM 80 controller to sixteen analogue plant signals for actuators, receivers, meters etc. The high speed analogue convertor resolves signal magnitude better than one part in four thousand.

The equipment comprises a module connected by cable to either a termination panel or alternatively a terminal rail. The analogue output module plugs into the subrack of a GEM 80 controller and connects to its fast I/O highway. A mounting kit for the termination panel is an optional extra.

FEATURES

- Suitable for industrial applications.
- Fast conversion, high resolution.
- Short circuit protection.
- Mechanical coding of module type.

SPECIFICATION

Number of outputs: 16

Nominal Signal Output Levels : There is a choice of 3 combinations.

1. $\pm 10\text{v}$
2. 0 to 20mA
3. $\pm 5\text{v}$

Output current for : $\pm 10\text{mA}$ maximum
 $\pm 5\text{v}$ and $\pm 10\text{v}$.

Compliance voltage for : 0 to 5v (maximum output load of 250 ohm)
0 to 20mA

Protection : continuous short circuit

Output response : 10ms maximum time

Accuracy : $\pm 0.15\%$ from 0 to 40°C
: $\pm 0.25\%$ from 0 to 60°C

Resolution : 1 in 4096 $\pm 5\text{v}$ and $\pm 10\text{v}$
: 1 in 2048 20mA

	Data table range	Corresponding output
$\pm 5\text{v}$ analogue output	- 32768 + 32752	- 5.117v + 5.117v
$\pm 10\text{v}$ analogue output	- 32768 + 32752	- 10.235v + 10.235v
0 to 20mA analogue output	- 32768 0 + 32752	0mA 0mA 20.47mA

Monitor sockets : single pole
2mm diameter plug

No damage output voltage : $\pm 15\text{v}$ peak max.

Localised damage output voltage : $\pm 5\text{v}$ analogue output: $\pm 45\text{v}$ max.
: $\pm 10\text{v}$ analogue output: $\pm 45\text{v}$ max.
: 0 to 20mA analogue output: $+100\text{v}$ (with respect to GEM80 0v). For negative voltage with respect to GEM80 0v up to 1.5amps (from GEM80 source).

Temperature : 0 to 60°C operating
: -20 to 70°C storage

Humidity non-condensing : 10 to 90%

Power consumption (excluding output loads) : 70mA @ +5v
: 150mA @ +15v
: 140mA @ -15v

Plant terminals : 2 signal terminals plus 1 screen terminal per output.
: up to 2.5mm² conductors
: slotted head screw clamp

Module dimensions : single slot width in GEM 80
: subrack

Termination panel:
Dimensions : 156 x 483 x 30mm (height x width x depth)

Mounting : 19in (483mm) rack

Terminal Rail:
Dimensions : 40 x 483 x 46mm (height x width x depth)

Mounting : 19in (483mm) rack or panel.

ORDERING CODES

Equipment for Direct Connection to Plant

Analogue Output Module	Terminal Rail	Termination Panel
$\pm 10\text{v}$ Analogue Output equipment	8841-4004	8841-4001
0 to 20mA Analogue Output equipment	8841-4011	8841-4012

The above order code each comprise the following equipment:-
An analogue output module, backplane and connectors and either:-
a) termination panel with 2M ribbon cable.
b) terminal rail with 3M wire harness.

Equipment for use with signal conditioning comprises:-

analogue output module for $\pm 5\text{v}$
backplane connector assembly
ribbon cable with connectors
(excludes termination panel) 8841-4002

Optional extras

Mounting kit comprising:-
1 length of steel channel
5 cable retention clips (plastic)
1 set of fixing screws 8959-0000

Spares

Analogue output module 0 to 20mA 8313-4001
Analogue output module $\pm 5\text{v}$ 8312-4003
Analogue output module $\pm 10\text{v}$ 8312-4002
Backplane connector assembly 8062-4001
Backplane connector assembly 8064-4001
Analogue output termination panel 8033-4001

Plugs for user connection to monitoring sockets Red 80801/180
Black 80801/181



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Note: The Company's policy is one of continuous development. Products supplied may differ from those described herein.