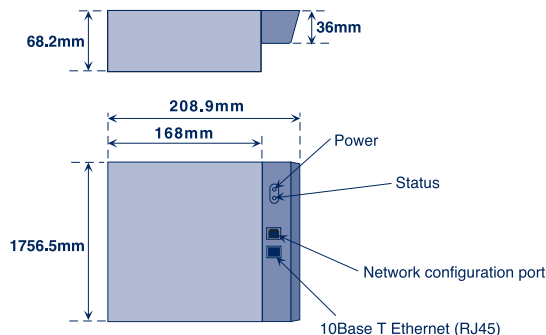


5000B

Networked Data Acquisition Unit



The 5000B is Eurotherm's latest data acquisition instrument. It is designed for maximum security of data and flexible functionality. The 24V unit can be DIN rail or wall mounted and has a large, internal Flash memory for secure data logging. It is designed for network use and comes as standard with the Full version of Bridge 5000 software. Full Bridge allows the user to view live process data, configure and operate the 5000B from any PC with access to the network. Security is maintained with individual user names and passwords and configurable access permissions.



Options

Groups – allows inputs to be viewed and archived in a strategy that suits the process. With six Groups available this option also allows multiple batches to be recorded.

Batch 5000 – enables batch logging to be started and stopped by the operator with process specific data being recorded including operator name, time/date and up to six configurable batch specific fields.

Screen Builder – create up to six custom User Screens to make a specific display to meet process needs. HMI capability via Master Comms option.

Maths, Totalizers and Counters – up to 36 extra channels to further manage process data.

Timers – 12 timers to automatically sequence and trigger events.

Auditor – for the ultimate in data security and traceability the Auditor Features provide additional security management features designed for compliance with 21 CFR Part 11. Includes: Secure Audit Trail; Electronic Signatures; Signature Control Elements, and Recorded Logins.

Log Scales – scales and gridlines may be set to a Log Scale with scientific notation.

Circular – circular trend display option with selectable 'chart' from 1 hour to 1 month.

Master Comms – Up to 16 instruments can connect using Ethernet and/or serial Modbus comms.

E-mail – send user defined e-mails and SMS messages via a job or demand.

Features

- full Bridge 5000 as standard
- high noise rejection and isolation
- up to 12 freely configurable input channels
- up to 7 changeover relays
- 125ms parallel sampling
- Ethernet communications
- Modbus TCP
- client and server FTP standard
- time sync using Simple Network Time Protocol (SNTP)
- RS232/485 serial comm option
- data archiving over Ethernet
- Review software as standard
- 13.25Mbyte internal Flash for storage of process data
- adaptive recording
- 24 configurable messages
- 6 event inputs

Specifications

Input types:

dc V, dc mV, dc mA, contact

Thermocouple: B, C, D, E, G2, J, K, L, N, R, S, T, U, Ni/NiMo, Platinel, RTD (2/3-wire), PT100, PT100A, PT1000, Ni100, Ni120, Ni1000, JPT100, Cu10, Cu53
4 configurable user linearizations

Max power consumption:

8-30V; 10W

Temperature limits:

Operation 0-50°C

Humidity limits:

Operation 5 to 80% RH non-condensing

Mounting:

DIN Rail or Wall Mounting

Literature:

HA027612 5000 Series Brochure

HA027565 5000 Series Specification Sheet

HA027647 5000 and 21 CFR Part 11

HA028136 Master Communications

21 CFR Part 11

ENHANCED FOR



Ordering codes

5000B	1	2	3	4	5	6	7	8
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1 Number of Channels

06	6 channels
12	12 channels

3 Option Card 2

NONE	None
R232	232 serial comms board
R485	485 serial comms board
3RLY	3 CO Relay outputs (note 1)

5 Shunt Value

NOS	No shunts
100	100 ohm shunts
250	250 ohm shunts

7 External Power Supply

NONE	None
EXTVH	External mains PSU

2 Option Card 1

NONE	None
3RLY	3 CO Relay outputs (note 1)

4 Qty of Shunts

00	Qty of shunts (0-12)
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6 Qty of 100:1 Attenuators

00	Qty of attenuators (0-12)
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8 Fixed

XXXXXX	Fixed option
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9	10	11	12	13	14	15	16
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9 Non Standard

XXXXXX	Non standard option
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11 Maths, Totalizers & Counters

MTC00	None
MTC12	12 Channel maths, totalizers & counters
MTC36	36 Channel maths, totalizers & counters

12 Maths

00	Number of Maths Ch (0-36) (note 2)
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14 Counters

00	Number of Counters Ch (0-36) (note 2)
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16 Batch

NONE	None
BATCH	Batch

10 Calibration Certificate

NOCAL	None
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13 Totalizers

00	Number of Totalizers Ch (0-36) (note 2)
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15 Groups

6GROUP	6 Groups
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17	18	19	20	21	22	23	24
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17 Screen Builder

NONE	None
06SB	Screen builder -6 user screens

19 Auditor

NONE	None
AUDIT	Auditor Features

21 Log Scales

NONE	None
LOGS	Log scales

23 Fixed Field

NONE	None
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18 Timers

NOTIMER	None
12TIMER	Timers (12)

20 Circular Trend

NONE	None
CIRC	Circular trend display

22 Modbus Master Comms

NONE	None
MODBUS	Modbus Master Comms

24 Review

RLITE	Review Lite (default)
RFULL	Review Full

Example ordering code

5000B - 12 - NONE - NONE - 00 - NOS - 00 - EXTVH - UK1 - XXXXXX - NOCAL - MTC36 - 20 - 08 - 08 - 6GROUP - BATCH - NONE - NOTIMER - AUDIT - NONE - LOGS

NOTES:

- Only available with 6 Channel version.
- Total number of Maths, Totalizers and Counters must equal number of selected channels (Field 11).
- Calibration Certificates are offered through our Service Dept. and are traceable to NIST standards.
- The total number of options selected in fields 12-14 must be equal to the option selected in field 11. For example, in field 11 if MTC12 is selected then the total number of derived channels in fields 12 through 14 must equal 12. 4 maths, 4 totalizers, 4 counters.
- If 12 channels are selected in field one, then fields two and three must be NONE.
- If validation is required, the addition of a user screen will fall under Category 4 of the GAMP procedures.