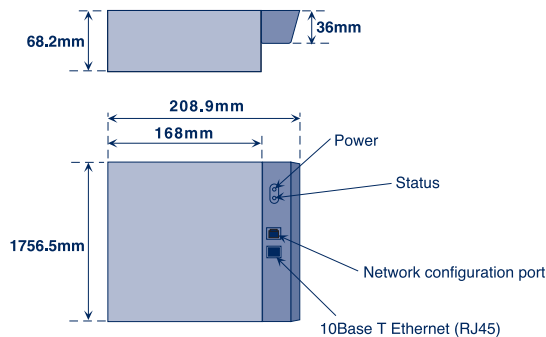


# 5000B

## 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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<b>1 Number of Channels</b> 06 6 channels 12 12 channels	<b>3 Option Card 2</b> NONE None R232 232 serial comms board R485 485 serial comms board 3RLY 3 CO Relay outputs (note 1)	<b>5 Shunt Value</b> NOS No shunts 100 100 ohm shunts 250 250 ohm shunts	<b>7 External Power Supply</b> NONE None EXTVH External mains PSU
<b>2 Option Card 1</b> NONE None 3RLY 3 CO Relay outputs (note 1)	<b>4 Qty of Shunts</b> 00 Qty of shunts (0-12)	<b>6 Qty of 100:1 Attenuators</b> 00 Qty of attenuators (0-12)	<b>8 Fixed</b> XXXXXX Fixed option

9	10	11	12	13	14	15	16
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<b>9 Non Standard</b> XXXXXX Non standard option	<b>11 Maths, Totalizers &amp; Counters</b> MTC00 None MTC12 12 Channel maths, totalizers & counters MTC36 36 Channel maths, totalizers & counters	<b>12 Maths</b> 00 Number of Maths Ch (0-36) (note 2)	<b>14 Counters</b> 00 Number of Counters Ch (0-36) (note 2)	<b>16 Batch</b> NONE None BATCH Batch
<b>10 Calibration Certificate</b> NOCAL None	<b>13 Totalizers</b> 00 Number of Totalizers Ch (0-36) (note 2)	<b>15 Groups</b> 6GROUP 6 Groups		

17	18	19	20	21	22	23	24
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<b>17 Screen Builder</b> NONE None 06SB Screen builder - 6 user screens	<b>19 Auditor</b> NONE None AUDIT Auditor Features	<b>21 Log Scales</b> NONE None LOGS Log scales	<b>23 Fixed Field</b> NONE None
<b>18 Timers</b> NOTIMER None 12TIMER Timers (12)	<b>20 Circular Trend</b> NONE None CIRC Circular trend display	<b>22 Modbus Master Comms</b> NONE None MODBUS Modbus Master Comms	<b>24 Review</b> 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.