

SPECIFICATION

Environmental Performance Temperature limits Operation: 0 to +50 °C Storage: -20 to 60 °C

Humidity limits (Non-condensing)

Operation: 5% to 80%

Storage: 5% to 90% RH Altitude (max): >2000 meters

Protection Bezel and display: IP65

Sleeve: IP20

Shock BS EN61010

BSEN60873 Section 9,18 Vibration (10Hz to 150Hz)

1g peak

Electromagnetic Compatibility (EMC)

BS EN61326 Emissions/Immunity

Electrical safety BS EN61010 Installation category II, Pollution

dearee 2

Power requirements

Standard: 100-230 Vac ±15%; Supply voltage

47 to 63 Hz or 110 to 370 Power (max) Vdc 50 W

Fuse type None

Input board

Isolation Channel to channel: 300 V RMS or dc (double insulation)

Channel to ground: 300 V RMS or dc (basic insulation)

Overvoltage protection 50 volts peak (150 V with attenuator)

Max number channels

Relay Board

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Relay to relay: 300 V RMS (double insulation) Isolation Relay to ground: 300 V RMS (basic insulation)

Max ratings contact 250 Vac 2 Amps

Max switching power 500 VA

Max number of relays

Serial Communications

Isolation Term to ground: 50V RMS or dc (basic insulation)

Event Input

Logic level

Isolation Channel to channel: 0V (common end)

Channel to ground: 100V RMS or dc (basic insulation)

Low: -30 to +0.8 V High: -2 to +30 V

Eurotherm: International sales and service

Manufacturing Address

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WARNING: This product can expose you to chemicals including lead and lead compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to:

https://www.P65Warnings.ca.gov

China RoHS Compliance - 6180 AeroDaq

部件名称 Part Name	有害物质 - Hazardous Substances					
	炉 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 Metal parts	X	0	0	0	0	О
塑料部件 Plastic parts	0	0	О	0	О	0
电子件 Electronic	X	0	0	0	0	0
触点 Contacts	0	О	О	0	О	0
线缆和线缆附件 Cables & cabling accessories	0	О	О	0	О	0

本表格依据SJ/T11364的规定编制。

O: 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。

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This table is made according to SJ/T 11364.

O: indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.

X: indicates that concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572.

Eurotherm. by Watlow

6180 AeroDAO

AMS2750 Data Management Solutions







HA029541ENG005/4

PRODUCT TOOLS UPDATES



https://www.eurotherm.com/eurotherm-products/recorders-and-data-acquisition/recorders-software/

SAFETY NOTES

Any interruption of the protective conductor inside or outside the apparatus, or disconnection of the protective earth terminal is likely to make the apparatus dangerous under some fault conditions. Intentional interruption is prohibited.

Note: in order to comply with the requirements of safety standard BS EN61010, the recorder shall have one of the following as a disconnecting device, fitted within easy reach of the operator, and labelled as the disconnecting device.

- a. A switch or circuit breaker which complies with the requirements of IEC947-1 and IEC947-3.
- b. A separable coupler which can be disconnected without the use of a tool.
- c. A separable plug, without a locking device, to mate with a socket outlet in the building.

- 1. Before any other connection is made, the protective earth terminal shall be connected to a protective conductor. The mains (supply voltage) wiring must be terminated within the connector in such a way that, should it slip in the cable clamp, the Earth wire would be the last wire to become disconnected.
- 2. In the case of portable equipment, the protective earth terminal must remain connected (even if the recorder is isolated from the mains supply), if any of the I/O circuits are connected to hazardous voltages*.
- 3. The mains supply fuse within the power supply is not replaceable. If it is suspected that the fuse is faulty, the manufacturer's local service centre should be contacted for advice.
- 4. Whenever it is likely that protection has been impaired, the unit shall be made inoperative, and secured against accidental operation. The manufacturer's nearest service centre should be contacted for advice.
- 5. Any adjustment, maintenance and repair of the opened apparatus under voltage, should be avoided as far as possible and, if inevitable, shall be carried out only by a skilled person who is aware of the hazard involved.
- 6. Where conductive pollution (e.g. condensation, carbon dust) is likely, adequate air conditioning/filtering/sealing etc. must be installed in the recorder enclosure.
- 7. Signal and supply voltage wiring should be kept separate from one another. Where this is impractical, shielded cables should be used for the signal wiring.
- 8. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment might be impaired.
- A full definition of 'Hazardous' voltages appears under 'Hazardous live' in BS EN61010. Briefly, under normal operating conditions, hazardous voltages are defined as being > 30 V RMS (42.2 V peak) or > 60 Vdc.







ELECTRICAL INSTALLATION

Supply Voltage Wiring

AC Supply

Recommended wire size

16/0.2 (0.5 mm²) (AWG20)

Signal Wiring

Supply

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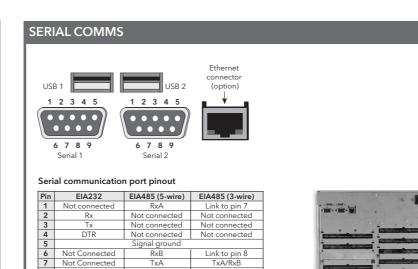
See Specification Side 2 for ratings

Recommended wire size

28-11 AWG (0.081 mm²- 4.13 mm²) Use Copper conductors only 3.5 Lb-in (0.35 Nm) Terminal tightening torque

Diagrams show connector locations for the input channel wiring and optional relay output wiring for the basic large frame recorders.





TxB/RxA

5.0V via 15000

8 Not Connected

