


SEM1750 USER GUIDE  To avoid the risk of electric shock and fire, please read this instructions document fully before use.

DIN rail mounted dual channel process conditioner with Voltage/mA input and output. USB configuration, LED state indication. Intended use industrial process monitoring and control.

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IMPORTANT SAFETY REQUIREMENTS.


Max working voltage Terminals (101 to 104) and (201 to 204) Inputs	± 75 Vdc @ 75mA
Max working voltage Terminals (105 to 108) and (205 to 208) Outputs	± 30 Vdc @ 50mA
Max working voltage Terminals (S1 to S2) supply	240 Vac, ± 240 Vdc
Isolation supply to Input/output	4200 V
Any input to any Output	3750 V
Output to Output, Input to Input	3750 V

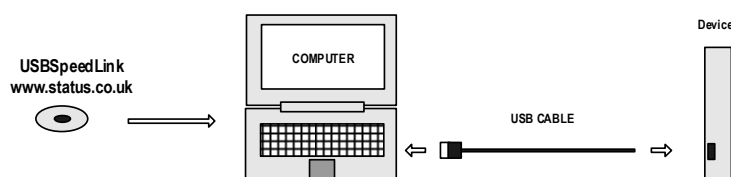
- This equipment is suitable for environment Installation category II pollution degree 1 and is classed as "PERMANENTLY CONNECTED EQUIPMENT". The equipment is intended for industrial and commercial application only and not suitable for domestic or medical use.
- The equipment must be mounted inside an enclosure that provides protection \geq IP65. In NORMAL USE, the equipment will only be accessed for maintenance by qualified personnel. Please ensure the equipment is mounted vertically with terminals (101 to 204) at the bottom. This will provide maximum ventilation. This equipment may generate heat, ensure the enclosure size is adequate to dissipate heat. Be sure to consider any other equipment inside the enclosure.
- The equipment surfaces may be cleaned with a damp cloth. Use a mild detergent/water on a damp cloth. Ensure the supply is off before cleaning and on completion of cleaning the equipment is completely dry before the supply is turned back ON.
- The equipment contains no serviceable parts, or internal adjustments. No attempt must be made to repair the product. Faulty equipment must be returned to the supplier for repair.
- This equipment must be installed by a qualified person. All electrical wiring must be carried out in accordance with the appropriate regulations for the place of installation.
- DC supply must be derived from a local supply and not a distribution system.
- To maintain CE EMC requirements, voltage input, DC supply and voltage output wires must be less than 30 metres.
- Supply (20 to 240) Vac 50/60 Hz (20 to 240) Vdc. If supply is a HAZARDOUS VOLTAGE a supply isolation switch must be installed close to the equipment with the "OFF" position clearly marked. Also, the supply must be fused with a suitable 1 A (T) fuse (circuit breaker) installed close the equipment.
- Receipt and unpacking. Please inspect packaging and instrument thoroughly for any signs of transit damage. If damage is present, do not use the equipment as safety protection may be affected. Please return damaged equipment to supplier.
- USB configuration can be performed without the supply being connected. For safety reasons, use 24 Vdc for functional test of unit prior to fixed installation. The following operations should only be carried out on a disconnected device and under ESD safe conditions: General mounting, connection and disconnection of wires.

Specification, please refer to supplier's web site latest product data sheet for full specification.

Basic specification

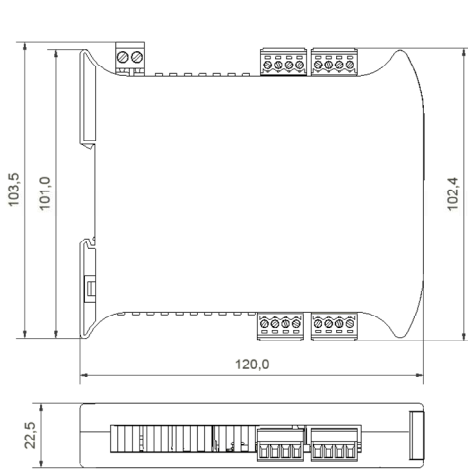
Supply	(20 to 240) Vac 50/60 Hz or (20 to 240) Vdc, 3 W, max isolation 4.2 KV supply to input output 3.75 KV to all other ports
Input (SELV)	± 50 Vdc or ± 50 mAdc
Output (SELV)	Current (0 to 20) mA, Voltage (0 to 10) V
Ambient	(-20 to 70) °C Approvals EN61010_1, EN61326

 **Configuration (Read the IMPORTANT SAFETY REQUIREMENTS)** During configuration the equipment takes its power from the USB port, therefore no power supply connection is required. The equipment can be configured whilst powered but the computer used must be isolated from the supply earth to avoid grounded earth loop effects. To avoid electric shock only use a 24 Vdc supply during bench configuration.



Default settings sample rate 420mS, Inputs (4 to 20) mA, outputs (4 to 20) mA, process ranges (4 to 20) mA, Tag Channel 1 Channel 2

⚠ Installation (Read the IMPORTANT SAFETY REQUIREMENTS)



Ambient Range
+ 70 °C Max
- 20 °C Min

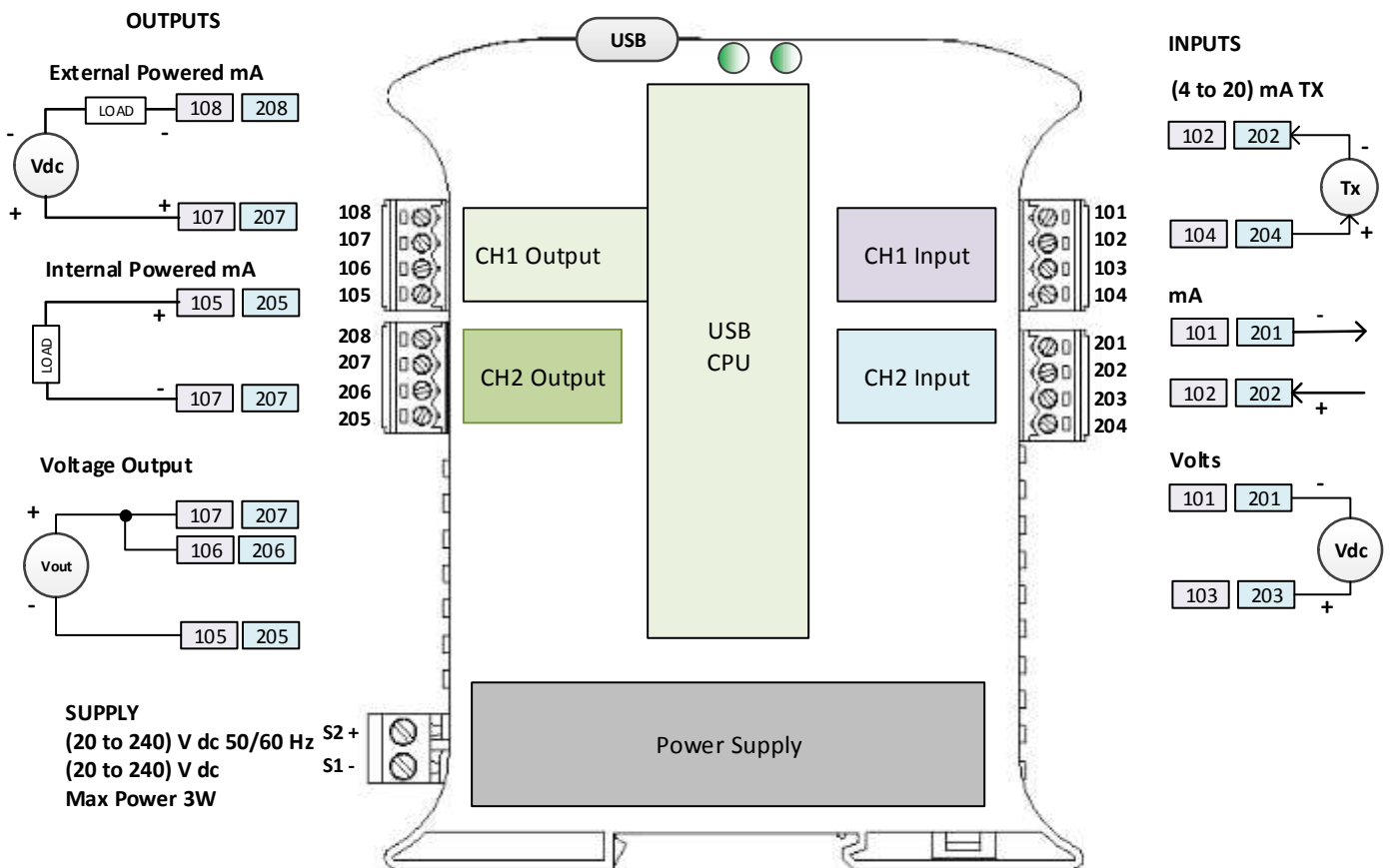


isolation switch

The equipment must be mounted on a DIN rail style DIN EN 50022 inside a plastic or metal enclosure with a protection level \geq IP65. All wiring must be secured. Max cable sizes 2.5 mm. Connection via two-part screw terminals.



ELECTRICAL CONNECTION - Ensure the supply is isolated before carrying out any installation or wiring. This equipment must be installed by a qualified person. All electrical wiring must be carried out in accordance with the appropriate regulations for the place of installation.



Input Connections For cable length >3 metres use screen or twisted pair cables. Maximum cable run 30 metre for Voltage, 1000 metres for mA current.

Output Connections For cable length >3 metres use screen or twisted pair cables. For current outputs maximum cable run 1000 metres, Voltage output 30 metres.

Supply maximum cable run 30 metres if using a DC supply. As stated in the IMPORTANT SAFETY REQUIREMENTS the supply must be fused with a 1 A (T) fuse and provision provided to isolate the circuit when hazardous voltages are being switched.

