...1 Health & Safety

Symbols

One or more of the following symbols may appear on the equipment labelling:

\land	Warning – refer to the manual for instructions
Â	Caution – risk of electric shock
	Protective earth (ground) terminal
<u> </u>	Earth (ground) terminal
	Direct current supply only
\sim	Alternating current supply only
$\overline{}$	Both direct and alternating current supply
	The equipment is protected through double insulation

Restriction of Hazardous Substances (RoHS)



The European Union RoHS Directive and subsequent regulations introduced in member states and other countries limits the use of six hazardous substances used in the manufacturing of electrical and electronic equipment. Currently, monitoring and control instruments do not fall within the scope of the RoHS Directive, however ABB has taken the decision to adopt the recommendations in the Directive as the target for all future product design and component purchasing.

2 Specification

Mechanical data

Protection IP66/ NEMA 4X Dimensions Height – 368.8 mm (15.23 in) Width – 382 mm (15.04 in) Depth behind panel – 141.5 mm (5.57 in) Materials of construction Case – Glass fiber-filled polycarbonate Window – Polycarbonate Weight Approx. 6.6 kg (14.55 lb) Electrical Power supply range 100 to 240 V AC ±10 % (90 V min. to 264 V AC max.)

100 to 240 V AC ±10 % (90 V min. to 264 V AC max.) 50/60 Hz

Power consumption <30 VA (typical for full specification unit)

Inputs/outputs

Universal analog inputs

- Up to 4 standard (C1901 1 only)
- Up to 2 optional
- Analog outputs
 - Up to 4 standard (not applicable to C1901)
 - Range 4 to 20 mA, maximum load 750 Ω
- Relay outputs
 - Up to 4 standard (not applicable to C1901)
 - Up to 8 optional (2 × 4-relay module)
 - Fully programmable contacts rated at 5 A @ 240 V

Digital inputs (not applicable to C1901)

- 2 standard per input module, 8 per option module.
- Minimum pulse duration 250 ms
- Volt-free
- TTL

Digital outputs (not applicable to C1901)

- 5 V TTL
- 5 mA per output

Environmental data

Ambient operating temperature

0 to 55 °C (32 to 130 °F)

Ambient operating humidity

- 5 to 95 % RH (non-condensing)
- 5 to 80 % (chart only)

Approvals, certification & general safety

- CSA general safety
- UL general safety
- CSA/FM Class 1 Div 2

Emissions and Immunity

- EN 50081-2
- EN 50082-2
- IEC 61326 for an industrial environment
- CE Mark

3 Installation

Location

Locate the recorder in a position where its temperature and humidity specification will not be exceeded and ensure it is suitably protected from direct sunlight, rain, snow and hail.

Select a location away from strong electrical and magnetic fields. If this is not possible, particularly in applications where mobile communications equipment is expected to be used, screened cables within flexible, earthed metal conduit must be used.



Figure 1 General installation requirements



Within temperature limits



Use screened cable

Figure 2 Environmental installation requirements