

Current Sensor Module

PRODUCT DATA SHEET

The Current Sensor Module, developed by UFSc, allows for measurement of current to an individual Membrane Electrode (ME) Cell or other DC load.

Presently, it is available in 100 amp sizes for tubular and c- cells and 150 amp version for box cells.

The current signals can be sent to a **Current Monitor™** System, where direct monitoring of ME Cells can be performed. Or the signals can be sent toward the UFSc **Signal Conditioning** board, which will allow for integration with a PLC or factory floor PC to record currents and create trend charts.

ADVANTAGES

- Can be spliced directly into an existing a ME Cell cable lead.
- Self contained and does not require special mounting.
- UFSc is a UL panel shop and makes its industrial control panels to the UL 508 A specification.
- Installation is quick. Only two load connections and two transducer connections to make per ME Cell or other load.

PROPERTIES

- PVC conduit fitting with close fitting gaskets to seal around cables.
- 100 or 150 amp versions.
- Limit transducer cable runs to 30 m (75 ft) or less.
- One DC shunt per point with a 1 amp = 1 mil Volt scale.
- Two fuses plugs (rated at 1 amp) for each DC shunt.
- Fuse holders are located inside Module.
- Butt connectors pre-attached to + and – transducer leads.
- 2 ¼" (6.35mm) round lugs included with each Module for attachment of the ME Cell wire cable (specify).



PN 295025 100 amp Version Current Module



PN 295026 150 amp Version Current Module

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REQUIREMENTS

- Use 18 AWG stranded pair, PVC jacket, shielded cable [Belden 9341, or equal] to field wire each transducer signal to a Current Monitor Panel and/or Signal Conditioning board(s).
- Must specify ME Cell wire size.
- Provide suitable location, close to ED tank & ME Cells.
- Good earth ground close to panel.
- If space is an issue, then consider placing all your shunts in one enclosure. See Bulletin 99506.

SAFETY ISSUES

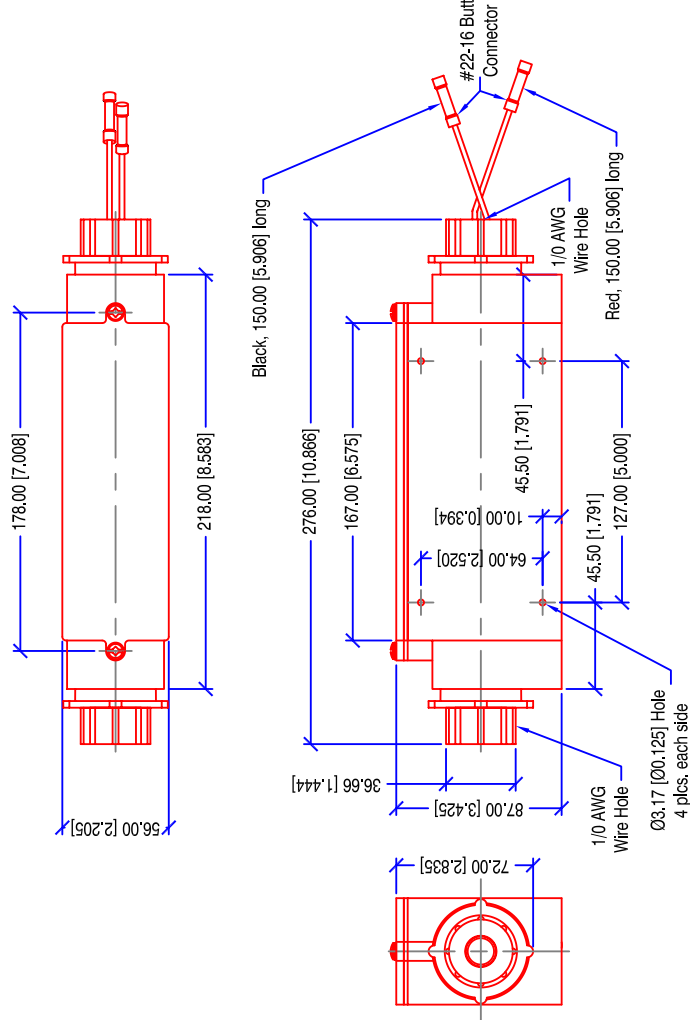
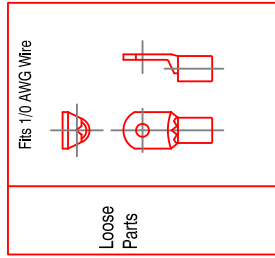
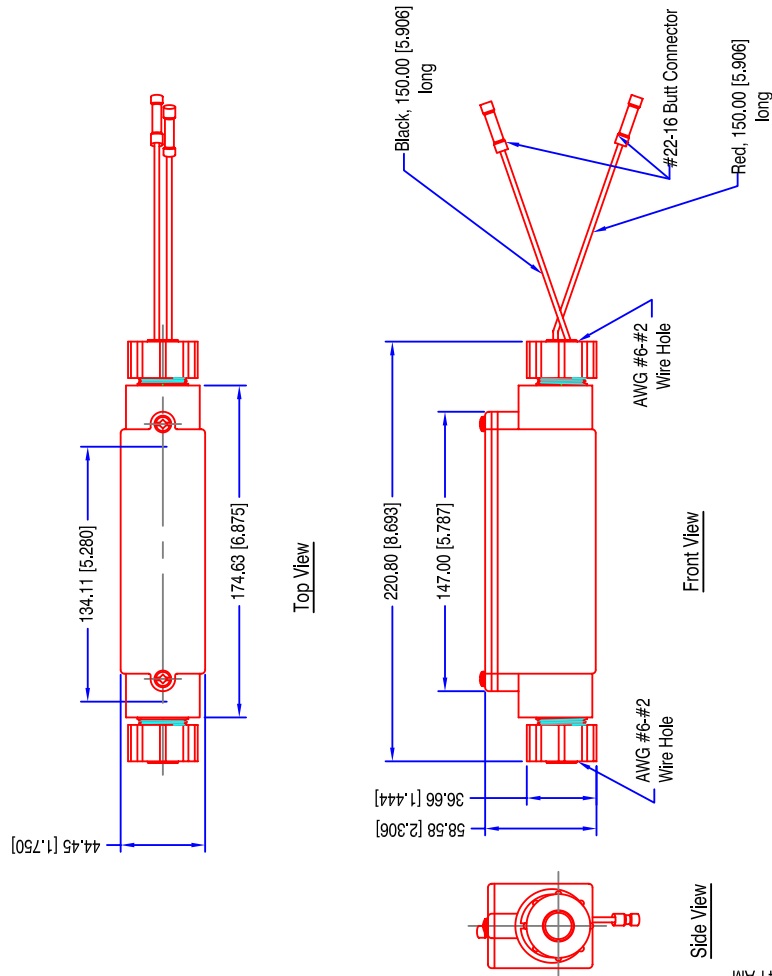
The voltage across the shunt is less than 100 m volts. However, the voltage drop from either shunt signal wire to ground is bus voltage.

Place Modules inside the ED enclosure and behind a locked door to limit access.

Before performing any work on the Current Sensor Module, always disconnect the power to the DC rectifier, using a lockout/ tagout program.

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Loose Parts	Fits 13.30mm ² [#6 AWG] Wire	Fits 33.62mm ² [#2 AWG] Wire	Fits 3.31mm ² [#12 AWG] Wire
	250038	250028	250030



XXXXX = Part Number/Material		Sensor, Current, 100A, 100mv, LB		Sheet:	1/1
Tel: +219-464-2027	Designed By: JS	UFS Part No. 295025	Revision:	0	Units:
Fax: +219-464-8646	Date: 9/1/99	www.ufsc.com	mm[in]	mm	Scale:
Visit us on the Web at	Approved By: SU	9/7/99	Scale:	None	
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