

# UFS Corporation

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## Installation Reference

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### Topic: Current Monitor System

*Please read all the instructions listed below carefully to familiarize yourself with the project before attempting to perform any of the work or unpacking any further.*

#### Required Materials

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- None

#### Required Tools

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- None

Installation is comprised of mechanical support, electrical installation and cabling.

#### MECHANICAL SUPPORT

1. The Meter Panel should be mounted at eye level. This will allow anyone to easily reach the controls and see the readouts.
2. Bring all conduits with twisted pairs to this location. Punch holes into the ammeter panel. The twisted pair wires go to the appropriate terminal pairs. Refer to the attached drawing.
3. The red wire goes to the terminal connected to the "+" side of the ammeter. The black wire goes to the "-" side of the ammeter. **NOTE:** The circuitry between the switches on the selectable inputs and the ammeters are factory installed.
4. The shunt is easily installed at an accessible location no less than 1 meter (3 feet) away from the cell. If there is a junction box nearby containing the supply leads, then the sensors should be installed inside this box on each wire.

Meter Panel enclosure should be grounded to a good Earth ground.

2. Each twisted pair from each shunt is attached to a terminal which goes to the meter internally. Use shielded, 18 AWG twisted pair instrument cable to interface the sensors to the Ammeter Panel.

#### CABLING

1. Run the 18 AWG shielded cable through conduit from the shunt to the Ammeter Panel.

**For more information** see the original manual that came with the equipment or call UFSc at the phone number shown above.

#### ELECTRICAL INSTALLATION

1. The Meter Panel needs to be connected with 120 volt power. Run one twisted pair from each field shunt to the panel. The