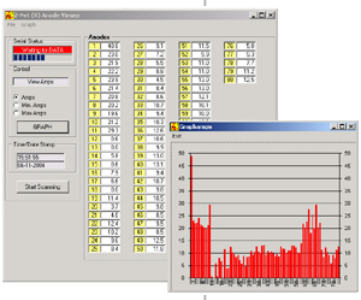
Anode Monitor System

PRODUCT DATA SHEET

The Anode Monitor System is designed to measure and report on electric current flowing through each Membrane Electrode Cell in your E-coat paint tank. This information can be viewed near the E-coat tank on the remote control panel. More powerfully, it can be delivered to your PC via RS-232 protocol or via an optional Ethernet adapter.

By measuring all Cells remotely in a fraction of a second, the Anode Monitor is especially useful when it is impractical to use a clamp-on ammeter, or in paint tanks where it is not efficient to measure one Cell at a time.



Sample of software output

View of Remote Display Panel

Interior view of enclosure

Features

- Standard units are available in the following sizes: 20, 30, 40, 50, 60, 70, & 80 position. Other sizes are available upon request.
- Built in multiples of 10. For example, a tank with 34 Cells would use the 40 position system, allowing for future increased capacity.
- 12.7 mm (1/2") thick copper bus bar with 2 x 12.7 mm (1/2") holes for line connections.
- Each Cell is protected with a fuse.
- NEMA 4x fiberglass enclosure box.
- DC Shunts are integrated into the panel. All load wires begin at the panel, reducing possible discrepancies among individual Cell current readings.
- Remote Panel can display 2 lines of text or 1 Cell at a time.
- Includes free software for PC (2000/XP) to display the results via RS232/RS485 connection.
- See reverse side for dimensional data.

Properties

- Standard design's maximum amp draw per Cell is 50 amps. Inquire about higher capacity units.
- 120 VAC 1 phase (1 Amp) power is required.
- Can perform a measurement every 500 ms (2 times a second).
- Output signals are protected by a high voltage isolation scheme.

Options

- Local DC Shunts placed near ME Cells.
- MODBUS TCP – Ethernet.
- MODBUS RTU – Serial.

UFS Corporation is the authorized sales and service distributor of JP Tech E-coat paint market products.

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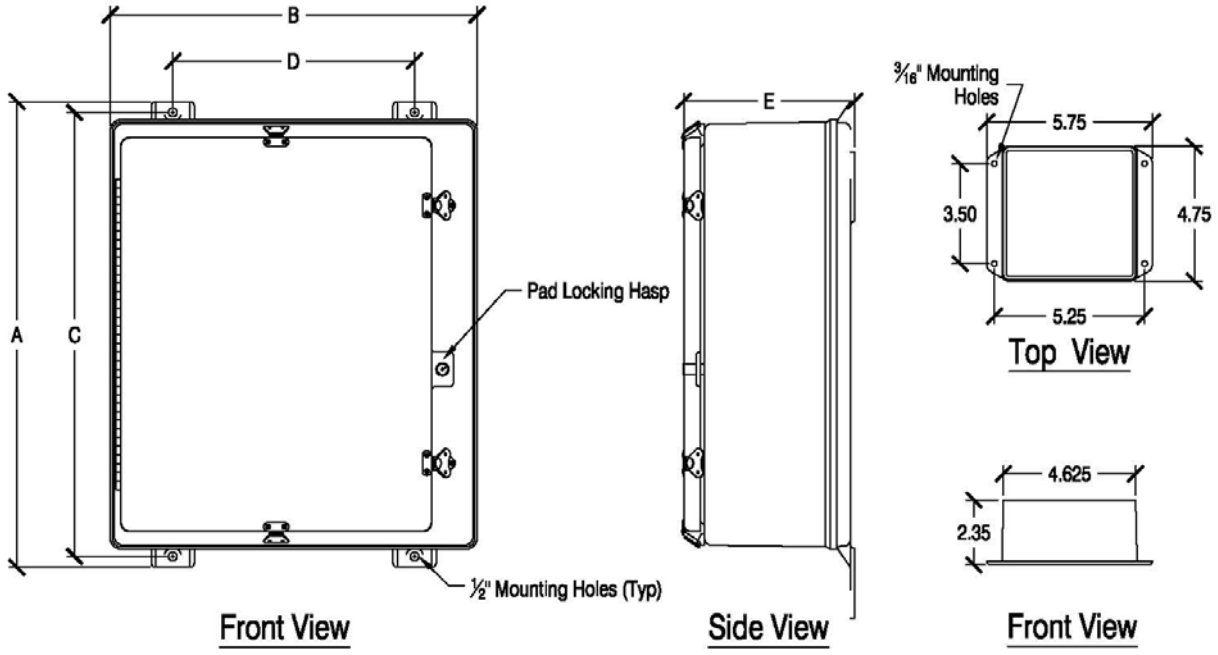
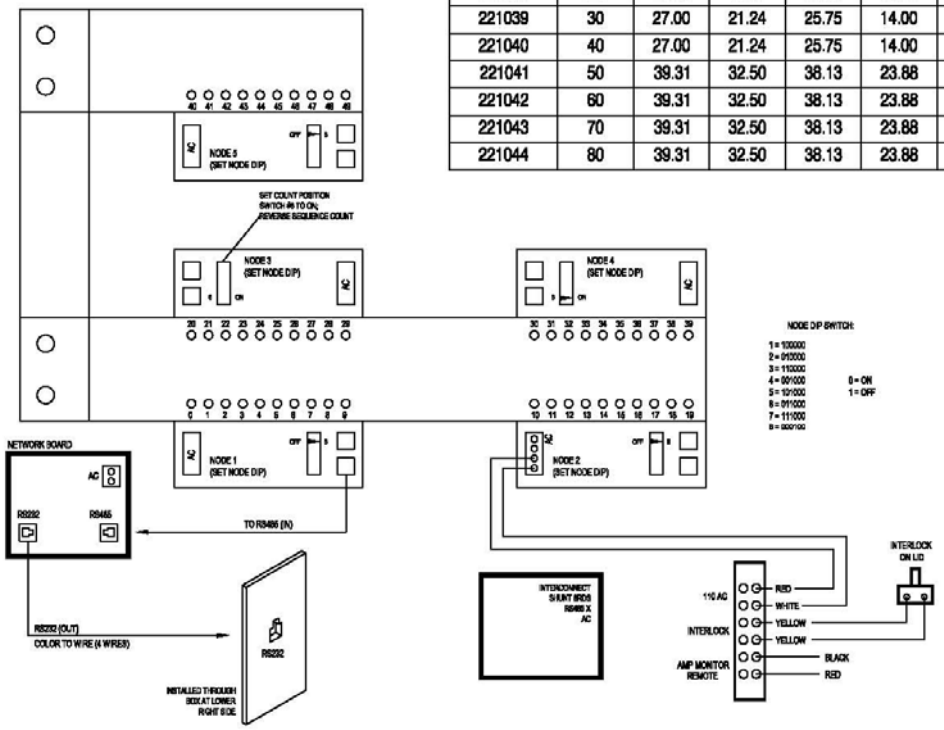


Anode Monitor Enclosure

Remote Panel

Dimensions						
UFS PN	# of Cells	A	B	C	D	E
221038	20	22.75	16.87	21.50	10.12	7.77
221039	30	27.00	21.24	25.75	14.00	9.90
221040	40	27.00	21.24	25.75	14.00	9.90
221041	50	39.31	32.50	38.13	23.88	10.05
221042	60	39.31	32.50	38.13	23.88	10.05
221043	70	39.31	32.50	38.13	23.88	10.05
221044	80	39.31	32.50	38.13	23.88	10.05



Typical Wiring Diagram