Project Brief - Sasaram Power Converter

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Mosaic mimic panel 10 metres x 2 metres – 134 instrument nodes and 12 LED driver nodes

SECTION 1	SECTION 2	SECTION 3	SECTION 4
<64 INSTRUMENT NODES	<64 INSTRUMENT NODES	<64 INSTRUMENT NODES	<64 INSTRUMENT NODES
3 x LED DRIVERS (192 O/Ps)	3 x LED DRIVERS (192 O/Ps)	3 x LED DRIVERS (192 O/Ps)	3 x LED DRIVERS (192 O/Ps)

MODBUS RTU

MULTIPLE RS485 COMMS

MIMIC CONTROLLER

Client/Server

Dual redundant   network for DCS
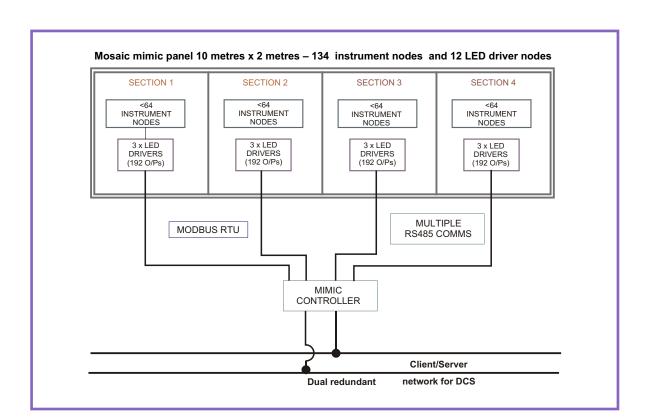
The mosaic was split into 4 sections, each provided with a serial port from the mimic controller. Modbus RTU was the protocol between the mimic controller and the M-NET slave devices.

A special instrument node was designed for this project to provide the functionality of a setpoint controller. This module has all the features of a standard instrument node with 2 additional 24v inputs and 2 LED driver outputs. These extra I/O points are used to connect to illuminated pushbuttons. Software was developed to fulfill the project requirements.

Ref: 080808

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