Dynamic colour change LED displays provide status alarms for steel presses

Products

Migra Indoor LED display

Customer

Industrial steel press operator

Application

Display of position and tonnage

Specifications

Two lines 100mm
Multicolour characters
IP54 protection RS485
input and
configuration
220VAC supply

Four 1.5m LED dot-matrix display units from Metrix Electronics' Migra Microsyst range are providing status updates for industrial steel presses. With 100mm characters and instant colour change to signal alarm safety critical messages, the displays have improved safety and efficiency in an industrial environment.

The customer approached the Metrix Technical Team in Hampshire during the design phase and together a practical and affordable specification was defined.
RS485 was selected for control to reduce the load on an existing Profinet network and a PLC calls up messages pre-stored in the displays. IP54 was selected for the dusty, indoor environment but sunshine readability was not required.
A custom 3 x 2 configuration of LED panels was selected to provide a resolution of 192 x 32 pixels permitting 2 lines of up to 100mm characters to be shown.
With Press Position on the upper line and Press Tonnage on the lower line, the display values are updated 3 times a second and values outside normal levels are signalled by a colour change to red on the displays .

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