

The Decade DLM Series

The DLM Series is a compact load monitor packed with features. Designed to offer comprehensive load protection to power presses, be quick and easy to use and is very competitively priced.

Benefits :

- Protect your Press and Tooling from Expensive overload damage
- Prevent over-setting and jammed presses
- Accurately set the correct tonnage for each job
- Detect broken springs, punches, misfeeds and scrap
- Prevent smash-ups by stopping the press before the damage is done
- Reduce tool setup time

DLM features:

- Displays peak load measured through the stroke
- Large easy to read LED display
- Teach button quickly sets limits to tool load in one press
- Checks for overload and underload conditions
- Press capacity limit & optional tooling limit protection
- Hard-Hit counter
- Key access to set points and fault reset
- Batch counter
- Data logging

DLM operation

The DLM works by measuring the dynamic force signal generated by the piezoelectric transducers mounted either on the press frame or con-rods. This signal is checked against a maximum and minimum load value and should it fall outside these limits a fault is detected and the press stopped. There is a fixed Press Capacity limit that gives protection to the press event when the DLM unit is in bypass mode.

TEACH mode

This is used to set the min and max limits using the current tool load. Just press the Teach button and start the press running, after a set number of strokes the DLM sets the min and max load limits automatically.

LED display

The display is clear and easy to read even in bright conditions. The three centimetre high digits show either total load, Left/Right Load or a dynamic Bargraph.

Soft-start function

This function automatically opens-up the min and max limits when the press stops, so on restarting the limits are then gradually closed back to their original values. This allows tighter limit setting when the press is running, giving better press protection.

Bypass input

This can be used to turn off the min and max limits while tool setting for example. The Press Capacity Limit is still checked though..

DLM specifications

Power Supply Requirements : Universal 85-264V ac, 12 VA.

Load Transducers : Decade Piezoelectric.

Press Top-Stop Relay : DPCO Contacts rated at 8A @ 240v.

Digital Input Signals : CAM, Soft -Start, Bypass & Reset. 12-24v dc (npn or pnp).

Press Speed Operating Range : Single-Stroke up to 750 SPM.

Load Display Range : From 10 to 3000 (Tonnes).

Display Resolution : 0.1 up to 150 (Tonne) 1.0 above 150 (Tonne).

Load Calibration : Electronic, no mechanical adjustment.

Setup & Calibration Memory : Onboard Flash memory.

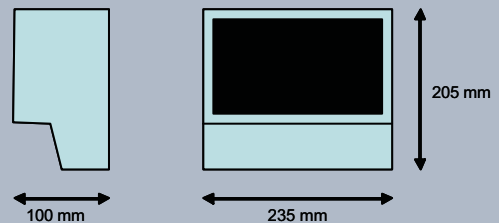
Processor : 16 Bit RISC with 12 bit ADC.

Ports : 1 x RS232 for backup and restore of setup data.

Underload Monitor : Requires external CAM signal (230 degrees on).

Enclosure : Tough, High Impact Polystyrene (UL 94 HB).

Unit Weight : 1.3 kg.



DLM Enclosure Dimensions

