

## SPEED - TORQUE - POWER



ref. MECAWATT  
For brushless sensors



### GENERAL FEATURES

MECAWATT is a display unit for showing 3 mechanical values of torque, speed, and power, with measurements taken on rotating machines using a torque sensor and a tachogenerator. It also includes:

- a manually adjustable energising source for a powder brake, or by external signal
  - analog copies of output of the three mechanical values.
- Supply : 230V 50Hz, 30VA.  
Dimensions : 375 x 80 x 275 mm - 5.8kg.  
Height of digits : 14mm (text: 6mm)

### DIRECT DISPLAY

- of the mechanical torque in Nm

Brushless torque sensors (-V2)

- of the speed of rotation n in rpm.

Sensors used: any tachometric dynamo of rating 10 - 20 - 60 V at 1000 rpm.

- of the power W

MECAWATT calculates internally the mechanical power  
 $P_u = M \cdot 2\pi \cdot n / 60$  and directly displays the results in watts.

### FRONT PANEL ADJUSTMENTS

- manual control of braking intensity

### ANALOGUE INPUTS AND OUTPUTS

The rear of MECAWATT is equipped with:

- a brake control input by 0 to 5V externally controlled by an analog signal. Impedance 1k $\Omega$
  - a 0 to 10VDC output at 0 to 500mA manual energising adjustment for a powder brake
  - a -5 to +5V\* average torque image output\*\*
  - a -5 to +5V\* average speed image output.
  - a -5 to +5V\* average power image output.
- \* The sign indicates the direction of rotation of the motor.  
\*\* The integration time constant of the average values is 1s.

MECAWATT is compatible with:

- motors of 90 - 300 - 1500 - 3000W
- rotating torque sensors of 2 to 100 Nm
- tachometric dynamos of 10 - 20 - 60V at 1,000 rpm.