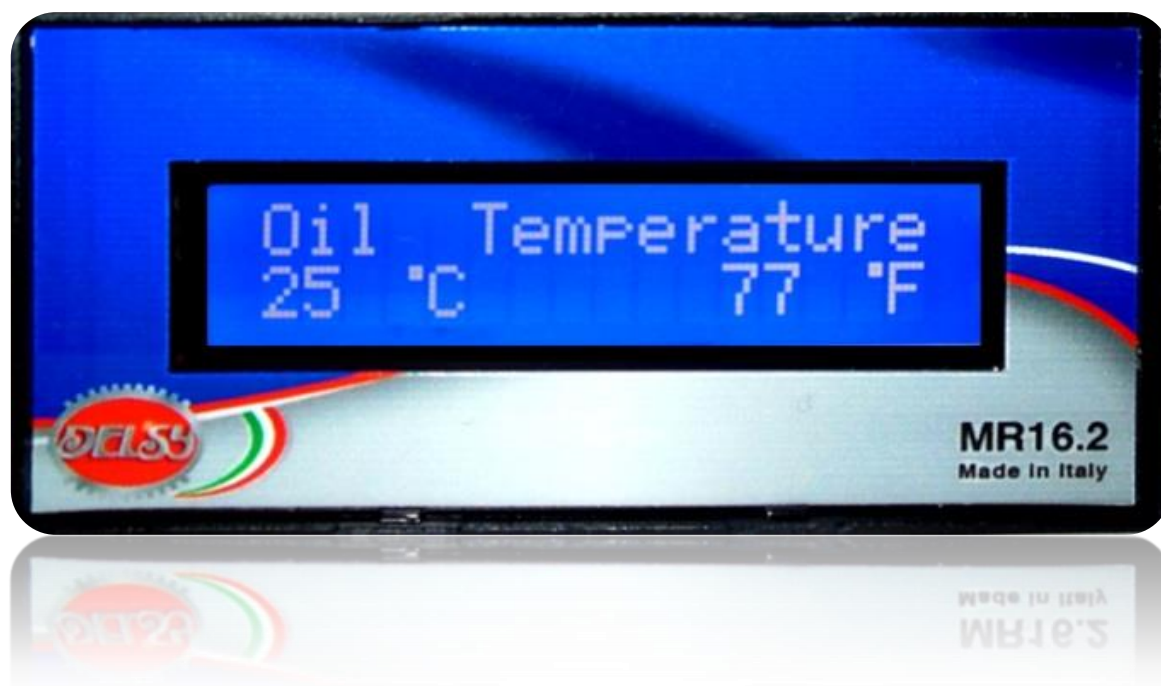


# MR 16.2

(Standard version)



## QUICK START

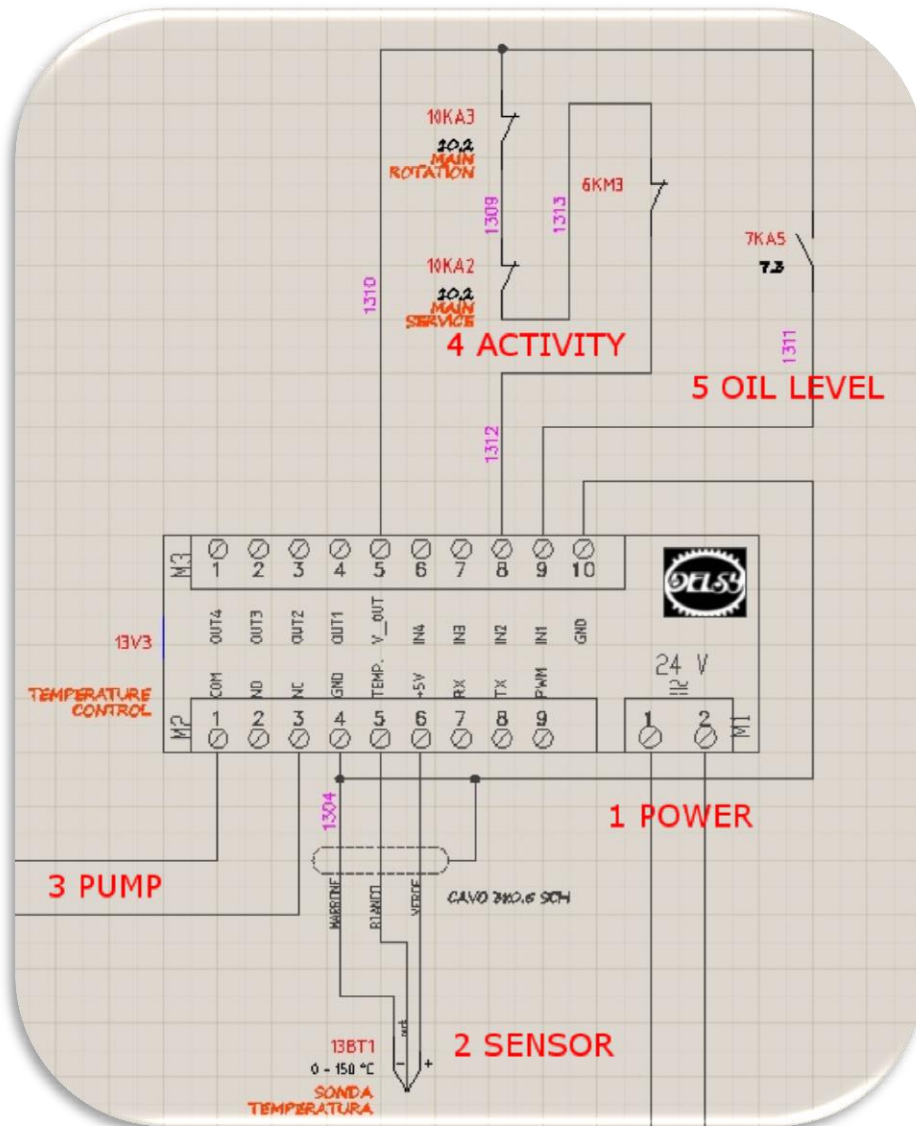
### INTRODUCTION:

The MR16.2 is a multifunctional device for the protection of the hydraulic system. Automatically turns off the machine's pumps when the oil temperature exceeds the threshold of guard or after long periods of inactivity.

If the oil level is insufficient or an excessive temperature is detected, it inhibited the activation of the machine.

It prevents wear of the machine and ensures energy saving.

## ELECTRICAL CONNECTIONS:



**1) Power: M1**

Power supply. It can be powered by a voltage between 10-24Vac or 10-24Vcc.

**2) Sensor: M2(4gnd, 5temp, 6+5V)**

Temperature sensor in the hydraulic control unit.

**3) Pump: M2(1com, 3nc)**

Connections for turn off machine's pumps.

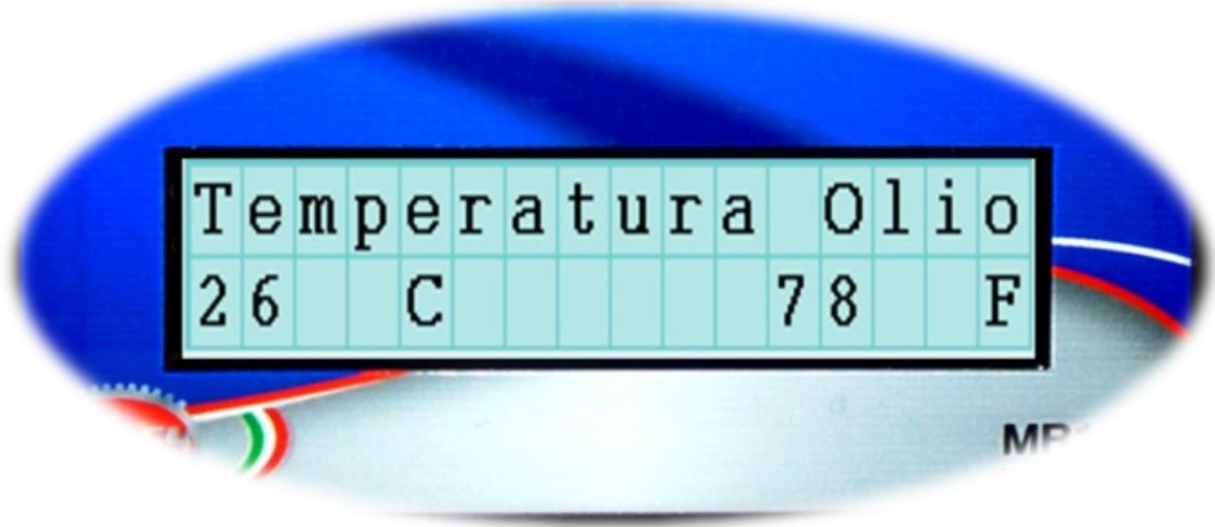
**4) Activity: M3(5v\_out, 10com)**

Input for monitoring machine activity.

**5) Oil level: M3(9in1, 10com)**

Connection to the oil level sensor.

## TEMPERATURE DETECTION:



Is the main operation mode.

The temperature is displayed both in degrees Celsius, bottom left, and in degrees Fahrenheit, bottom right.

The machine's operating method changes depending on the temperature detected:

**1) +40°C / +104°F:**

Turn on the heat exchanger (if provided with the machine).

When the temperature is lower than 35°C / 95°F turns off the heat exchanger.

**2) +65°C / 149°F:**

Turn off the machine's pumps.

It is allowed the reactivation of the machine, using the start button and normal working condition for two minutes. After this time, the reactivation will be only permitted when the temperature falls below to 60°C / 140°F.

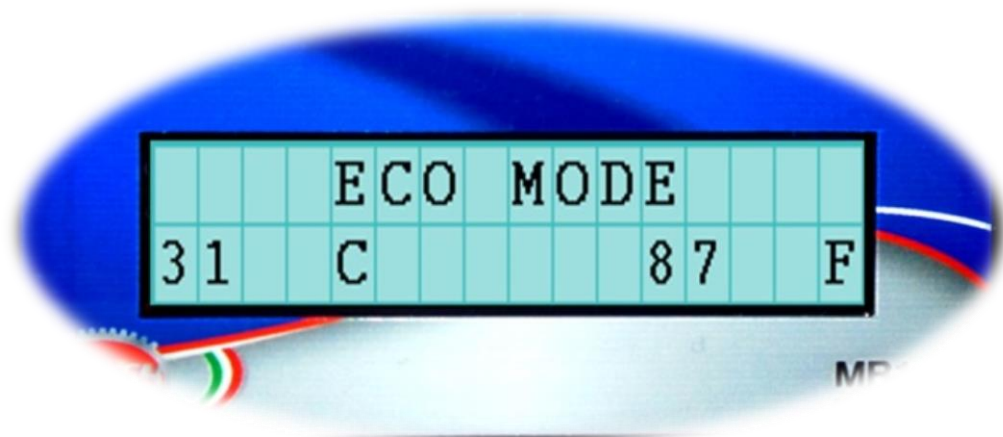
**3) +75°C / 167°F:**

Turn off the machine's pumps.

The reactivation of the machine will be only allowed when the temperature is lower than 60 °C / 140 °F.

That is useful to prevent damage of the hydraulic system of the machine.

### ECO MODE:



It is the power saving mode.

After five minutes of inactivity the hydraulic pumps are automatically turned off.

The machine can be restarted by pressing the start button.

This prevents wear of the hydraulic system and allows to save power.

### OIL LEVEL:



It is the oil detection mode.

If detects a low oil level, the machine will be turned off. Can't be restarted until the level is restored to the correct level.

It prevent damage to the hydraulic parts of the machine.

### REFERENCES:

Reference directive: 2004/22/CE

