

G.MILANI S.A.S.

DI TETTONI FABRIZIO & C.

VIA CAVAGLIETTO, 25

28010 - CAVAGLIO D'AGOGNA NO (ITALIA)

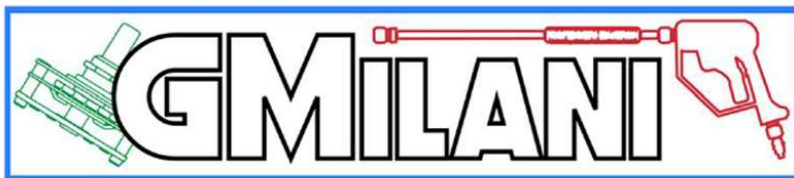
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EQUIPMENT FOR HOT WATER PRESSURE CLEANERS TLR 4 FTC

Features:

Power supply:

230 Vac / 400 Vac – 50/60 Hz

Supported motor loads:

400 V up to 4 kW – 5 HP

230 V up to 3 kW – 4 HP

Management:

microprocessor-controlled

Diesel solenoid valve control:

10 A, NO clean contacts with 3-second delayed activation

Signal output:

12 Vdc max 100 mA for indicator LED

Control inputs:

low voltage pressure switches

thermostat

flame control photocell

Electrical connections:

2.5 mm² cables for power, 0.5 mm² cables for control signals

Mechanical characteristics:

Dimensions (L × D × H): 85 × 68 × 47 mm, Weight: 480 g

Pump motor output:

internally controlled by 3 relays rated 16 A each

Protection:

Electronic board encapsulated in epoxy resin against dust and humidity



Description:

The TLR 4 FTC represents the evolution of the standard TLR4FC model, now fully controlled by a microprocessor, allowing the integration of new monitoring and control functions.

The board is equipped with a dedicated connector which, through a specific interface, allows connection to a PC. Using the TesterTLR software it is possible to:

- set customized timings
- enable or disable functions and controls
- individually test each input and output
- monitor machine status during operation

Each unit is serialized (serial number visible through software), ensuring complete traceability of the equipment.

Among the main additional functions is an hour meter that allows viewing:

- total operating hours
- hot water operating hours

An hour meter with maintenance reminder function is also integrated: when the configured threshold is reached, the need for routine machine maintenance is indicated through a dedicated output.

MADE IN ITALY

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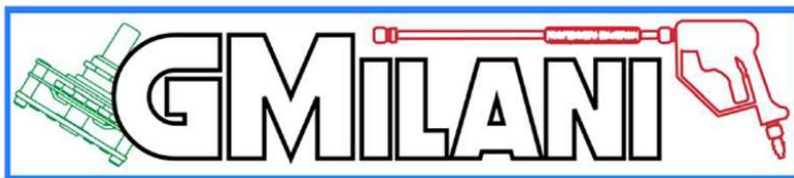
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Resetting can only be performed through software. It is possible to define the board behavior when the configured threshold is reached:

- allow normal operation
- completely block the machine after a second defined threshold is exceeded

All functions can be configured and disabled through the TesterTLR software.

The TLR 4 FTC integrates photocell control and a dedicated thermostat input, ensuring safety of the hot circuit. Faults, tampering, or absence of signal result in shutdown of the hot section. Disabling this function is allowed exclusively through software.

The dimensions remain identical to the TLR 4 FC model. To maintain the same footprint, it was necessary to use wired connections due to the limited internal space. The model is not available in alternative versions; different solutions can be evaluated through the design of a new device, either resin-encapsulated or open-frame, with a different connection type.

ALARM INDICATIONS

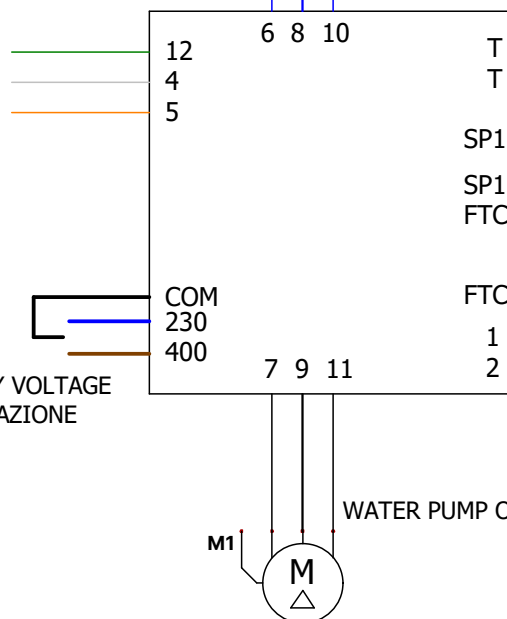
- STEADY ON -** Total shutdown due to missed maintenance
(reset by the service network)
- 1 FLASH -** Recommended routine maintenance warning
(reset by the service network)
- 2 FLASHES -** Pump permanently active shutdown
(remove power for a few seconds to restore operation)
- 3 FLASHES -** Micro-leakages / false starts
(remove power for a few seconds to restore operation)
- 4 FLASHES -** Shutdown due to inactivity
(remove power for a few seconds to restore operation)
- 5 FLASHES -** Water shortage shutdown
(remove power for a few seconds to restore operation)
- 6 FLASHES -** Boiler shutdown due to flame failure
(after 3 restart attempts, operation continues in cold mode)
- STEADY ON WITH 0.5 sec OFF -** Photocell hardware fault (open circuit or short circuit)
(cold mode operation)

MADE IN ITALY

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POWER INPUT / INGRESSO ALIMENTAZIONE

LACK OF WATER / MANCANZA ACQUA
COMMON PRESSURE SWITCHES / COMUNE PRESSOSTATI
LAUNCH ON / LANCIA ON



THERMOSTAT - TERMOSTATO

LED INDICATOR 1 / SPIA LED 1

CONTACT NO X ACTIVATION / CONTATTO NO X ATTIVAZIONE
DIESEL SOLENOID VALVE / ELETTROVALVOLA GASOLIO

TLR VOLTAGE CHANGE / CAMBIO TENSIONE TLR
CONNECT BLACK CABLE ACCORDING TO POWER SUPPLY VOLTAGE
COLLEGARE CAVO NERO SECONDO TENSIONE ALIMENTAZIONE
230Vac BLUE / BLU
400Vac BROWN / MARRONE

WATER PUMP OUTLET / USCITA POMPA ACQUA

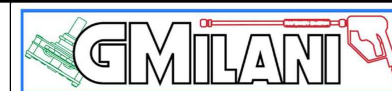
M1 - Water pump outlet / Uscita pompa acqua
EV1 - Diesel solenoid valve / Elettrovalvola Gasolio
K1 - Low Voltage Switch / Interruttore Bassa Tensione
H1 - 12Vdc Warning Light / Spia Segnalazione
FTC - Flame presence photocell / Fotocellula presenza fiamma
In single phase do not use 10-11 / In monofase non usare 10-11

TLR4FTC

REV. DATE

DESIGNED
G.Milani

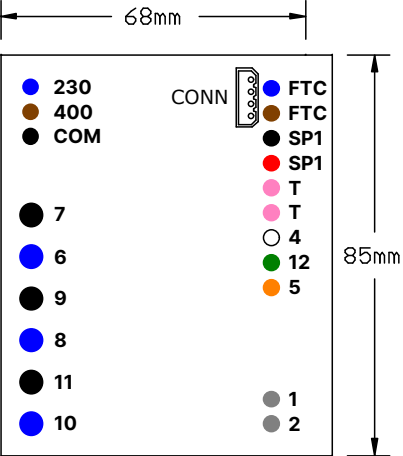
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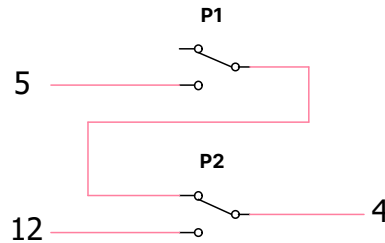
SCHEME

CONTRACT:

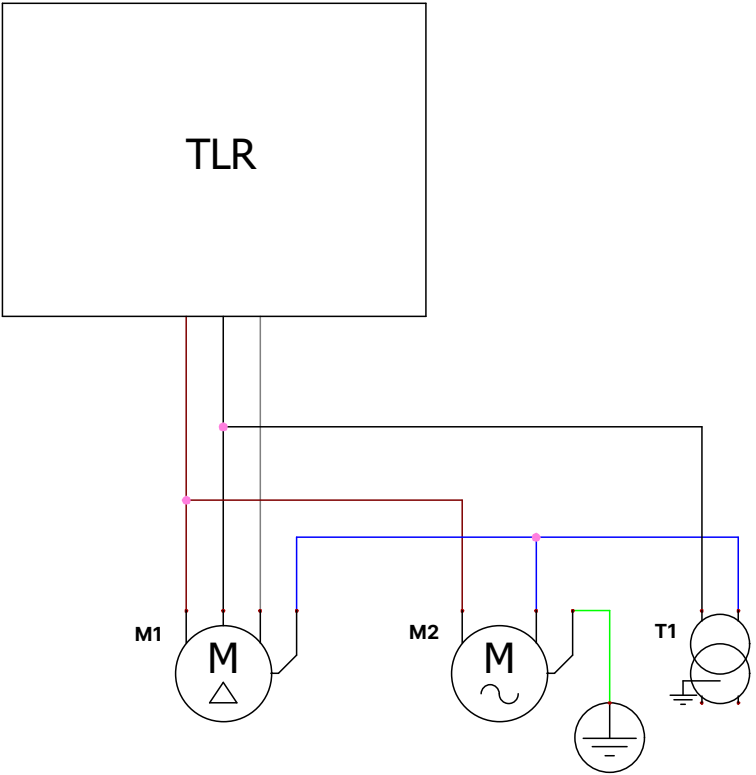
- M1 - Motor Pump / Motore Pompa
M2 - Smoke fan motor / Motore ventola fumi
T1 - Spark high voltage transformer / Trasformatore alta tensione scintilla
P1 - Pressure switch generally mounted on the pump / Pressostato generalmente monatato su Pompa
P2 - Pressure switch generally mounted on Bypass Valve / Pressostato generalmente montato su Valvola Bypass
CONN - PC interface connector, programming, testing and testing - Connettore interfaccia PC, programmazione, collaudo e test.



Example of pressure switch connection
Esempio collegamento pressostati



Example of Fan Motor and Spark Transformer connection
Esempio collegamento Motore Ventola e Trasformatore Scintilla



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