Control units for systems with self-propelled irrigators. Complete with electronic transmitter (electronic pressure switch) and digital pressure gauge for pump water pressure. Start/stop with push buttons.

With simple starting, automatically these survey the motor pump and, because of all the digital instruments, improve the reading accuracy and reliability over time.

**CIM-130**
**CIM-131**
**CIM-136** Complete with GSM telephone warning device.
**CIM-137**

**CANBUS Connection**
Cables are supplied for connecting engines equipped with an electronically controlled injection system.
SEQUENCE OF OPERATIONS

Start the motor pump

Select MAN

After 10 seconds is displayed:

Wait until the pipes are filled.
When the working pressure has stabilized, select AUT.

The working pressure is regulated automatically.

Set the required pressure.
It is also possible to set the working pressure with the mobile phone.

BAR STORED

FAILURE TO FILL PIPES FAULT

If the pressure is not reached within the FAILURE TO FILL PIPES time, FAILURE TO FILL PIPES is displayed on the display and the engine stops.

ABNORMAL ACCELERATION

(Pipe leakage controlled within the limits of the system).
As a result of a leakage, the engine tends to increase the revolutions to bring it back to WORKING PRESSURE. If the revolutions increase by 10% for a time longer than 120 seconds, ABNORMAL ACCELERATION is displayed on the display and the engine stops.

PUMP PROTECTION

NO ADJUSTING IS REQUIRED

CONTROL UNITS FOR COVENTIONAL ENGINES

<table>
<thead>
<tr>
<th>CIM-130</th>
<th>CIM-136</th>
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</thead>
<tbody>
<tr>
<td>CIM-131</td>
<td>CIM-137</td>
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</tbody>
</table>

Complete with GSM telephone warning device.

CONTROL UNITS FOR ENGINES FEATURING AN ELECTRONIC CONTROL FOR THE INJECTION SYSTEM

<table>
<thead>
<tr>
<th>CIM-130 FPT</th>
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</thead>
<tbody>
<tr>
<td>CIM-130 JCB</td>
<td>CIM-136 JCB</td>
</tr>
<tr>
<td>CIM-130 JDE</td>
<td>CIM-136 JDE</td>
</tr>
</tbody>
</table>

for engines

NEF 45
NEF 67
CURSOR

JCB
JOHN DEERE

Additional control units soon available

CONNECTIONS

The control unit are complete with pre-cabled connector.
The few and simple connections to be made are helped by the colours of wires.
Using the mobile phone to manage the system

- These notify via SMS message when the motor pump is in alarm condition.
- Programming pages of telephone numbers to be dialled when the motor pump is in alarm condition.
- Possibility of displaying the status of the motor pump.
- Possibility of switching off the protection of the pump.
- Setting of the minutes of work.
- Possibility of starting or stopping with SMS commands.
- Possibility of starting, stopping, accelerating or decelerating with commands in real time.
- Setting of the working pressure.

Sim card insertion on the front

CIM-136
CIM-137
High gain antenna (supplied)
ACCESSORIES ON REQUEST

**SPEED VARIATORS**
Control the accelerator of the engine (Force 30kg)

**VAR - 202**
Speed variator with 6 wires to be connected to the control units:
- CIM-130
- CIM-136

**VAR - 140**
Speed variator with 2 wires to be connected to the control units:
- CIM-131
- CIM-137

**BASE FITTING**
Support on request

**FLOW SWITCH**
FAP - 200
Signals the absence of flow in the pipes

**MADE TO**
Motor pump set by stopping it in the event of fault:
- Low oil pressure
- Over temperature
- Belt breakage
- Battery overvoltage
- No fuel
- Low coolant level
- Low pump water pressure
- Absence of water flow
- Pump water over pressure
- Overspeed
- Available anomaly

**TECHNICAL DATA**
Supply voltage by battery: 9÷32 VDC
Degree of protection:
- Front: IP64
- Rear: IP20
Dimensions (LxHxP): 288X200X90

Display the functions of:
- Hour meter
- Oil pressure gauge
- Water or oil thermometer
- Tachometer
- Pump water pressure gauge
- Programmable timer
- Fuel level
- Battery voltmeter
- Pump protection exclusion
- Oil and battery lights
- Protections intervention
- Emergency stoppage
- Electronic transmitter for minimum and maximum pump water pressure

The control units have a system that can communicate with other control units located on the irrigator.

® via Arandora Star, 28/A 43122 PARMA (ITALY) - Tel. +39 0521 772021 / Fax +39 0521 270218  www.elcos.it  e-mail: info@elcos.it