

IOT-PIVOT



Moralejo Técnica S.L

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Moralejo
TÉCNICA S.L.

This device allows the machine to be stopped or started using a latch type relay. Also monitors the status of the pivot, running or stopping, the pressure in it in bars and also has an intrusion detector, which alerts instantly if there is someone trying to manipulate or steal the pivot.

The pressure measurement is carried out using an analog transducer, range 0-10 bars. Once the pressure is read, if it is greater than the minimum pressure (configurable), the equipment understands that the pivot is running. Similarly, if the pressure is less than the minimum pressure, the team understands that the pivot is stopped.

Once the measurement has been made, it is uploaded to the internet through different communication technologies. The user receives in the mIOTec application on his Smartphone the status of the pivot, pressure and intrusion.

General

- Configurable sampling time (default: 30 min.)
- Does not require recalibration or maintenance.
- Commissioning, easy and fast.

Electrical characteristics

- Electrical power supply: 2 serial batteries Li-socI2.
- Tension: 7,20 Volts.
- Capacity: 7.700 mAh.
- Consumption :
 - < 70mA Active.
 - < 25uA Idle.

Wireless communications

You can use any of the following platforms:

- Sigfox 868 MHz.
- Lora 868 MHz.
- 2G/3G with SIM card.

The antenna is external with gain -3 dB.

Wired communications

- RS-485 port.
- RS-232 port.

Aplications

- **Allows to start/stop the machine.**
- Monitoring the on / off status of the pivot.
- Monitoring the pressure of the pivot.
- Obtain pressure histories.
- Receive instant notice of intrusion.
- Notice of possible theft.
- Detect pivot malfunction.
- Detect stops by alarm of the pivot.
- Obtain process history.
- Detects pipeline obstructions.
- Allows to detect water leaks.

Equipment measurement

- Uses piezoelectric technology.
- Measurement range: 0.0 to 10bars.
 - Accuracy: 0.1bar.

work environment

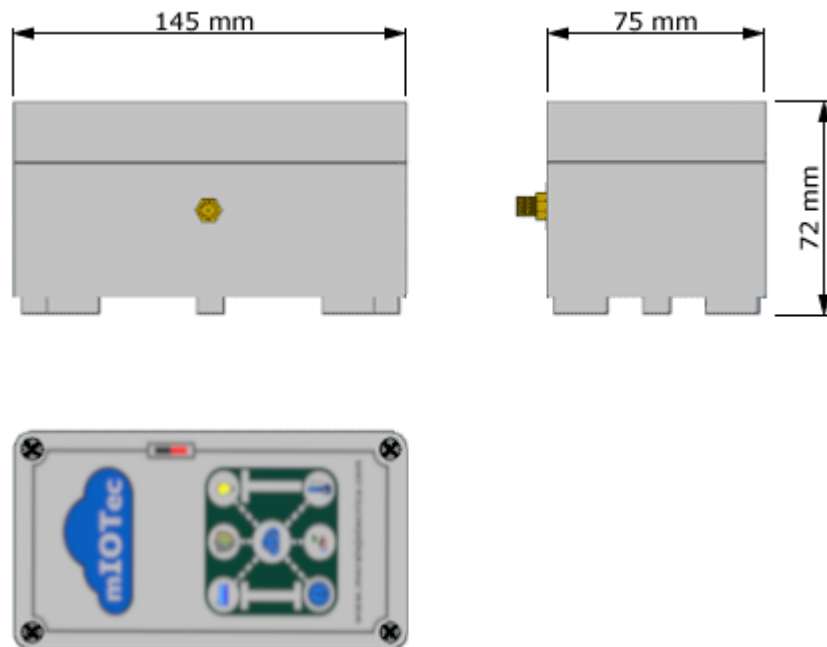
- Temperature: -30°C to +80°C.
- Humidity: 10% to 90% RH.

Connectivities



- Our devices are available with different connectivity technologies.
- Choose the one that best suits your needs or let us advise you.
- Sigfox communications.
- LoRa communications.
- 2G/3G, SIM card .
- NB-IOT.

Physical properties of the box



Protection index	IP-67
Height	72 mm
Width	145 mm
Depth	75 mm
Weight	600 gr



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