SMG
TECHNOLOGY INNOVATIONS

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397 - 24440

DIGITAL WATER PRESSURE: WPM 43 S

2 CH - Water Pressure Meter Monitor
developed for CMP, control and setting pressure.

RELIABLE AND EFFECTIVE SOLUTION

Originally developed for CMP systems, this device was built to monitor the control of the water pressure for several systems, also available on custom configuration, this digital device maintains the control of the pressure, allowing to intervene if errors occurred.

* Each technical and software specification can be configured as required.

The low-profile display features a 4.3" capacitive touch screen and a dual-core ARM processor running embedded Linux.

Specifications

Analog. Sig. Out:
- 1 ÷ 5 V - Each Channel - Flow/Temp

Alarm Out:
- 1 SPDT each Channel.

Processor:
Freescale i.MX283 (454MHz, 32bit, ARM 9)

Display:
Display 4,3" TFT with 262 K colours

Memory:
8Gbit DDR3 SDRAM and 16GB SD card

Operating °C:
0 to 40°C (32 to 104°F)

Pressure Range:
- 0 PSI ÷ 30 PSI * Customizable

Supply Power:
- 100 : 250 Volt - 1A - 50/60 Hz.

Active working control

The WPM 43 S product will report an output error if the process is unstable.

2 CH - WP CONTROL MONITOR

Also available for more kind of applications.

- **It can check the pressure, 0 ÷ 30 PSI.***
- **If the value is out of range,**

WPM 43 S will send out an error signal.*

- **20 sec. of delay for error integrated to avoid fluctuations.***
- **Reset button integrated to restart the system.**
- **Buzzer integrated to speak the error.**

***This project is fully customizable.**

* **Upgrades guaranteed.**

Pressure Trend

This device will always maintain an active control of the value, ensuring maximum protection to production, certifying that your equipment is working constantly correctly.

Browsing pressure trend page, you can check the values over time and eventually via usb download the saved date, (updated every 24 h).

Pic. A: Value returned in range after an error.

Graphically this system aims at an easy and clean interpretation of the hmi.

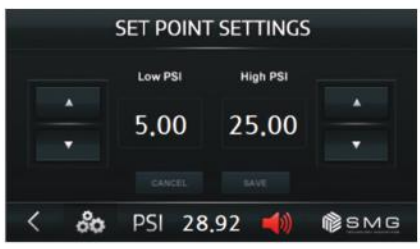
the colors used represent the values in range and those excluded, moreover there is an analogue and digital reading. A system always ready and efficient with great reliability and precision.

Pic. C: Value measurement, 24 hours downloadable via USB.

Setting page - Set point Settings

Touching the setting button, will be in able to access the to set point configuration page.

Default setting it is set to a value in the range of 0.5 PSI to 25 PSI, but will be possible touching the arrow buttons, lowering or raising the level of 0.10 PSI.
Remember that no new settings will be saved if save button isn't touched, instead you can use the cancel button to return to the default settings.



Pic. B: Set point settings page.

SMG Technology Innovations can modify this project to make it suitable for other platforms or needs to implement new logical rules to apply to the equipment with our diagnostic systems.

For more don't hesitate to contact us.

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ISO International Organization for Standardization