

Irrigation Control & Pressure Monitoring

Feldfühler Bernd



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Sensors for professional agriculture!

Overview:

Bernd is an intelligent control and monitoring device for professional agriculture. The device can be used to actuate solenoid valves for irrigation while monitoring the pressure at the same time. Each valve can be controlled individually or in groups via the Feldfühler app from anywhere, either on a schedule or sensor-based, which enables needs-based irrigation.

Bernd already comes with everything you need to fully automate irrigation systems in a very simple way. For the power supply, Bernd has a rechargeable 4,500 mAh battery as well as a large solar panel. In addition, Bernd has an external power connection through which it can be charged from the mains. Connecting an external solar panel is also possible, which allows installation in a shaft. Communication takes place via the NB-IoT mobile network standard, which enables high reliability as well as very fast switching times. Bernd is therefore completely autonomous and can be used anywhere without the need for expensive infrastructure. Thanks to the optional marten and vandalism protection, the device can be installed anywhere.

Features:

- Extremely low power consumption
- rechargeable battery with solar panel
- time-based or sensor-based control
- Optional marten and vandalism protection
- Pressure monitoring
- Waterproof housing (IP68)
- For up to 4 valves & pressure sensors

Specification:

Power supply:

- Rechargeable 4,500 mAh battery with solar panel (1 month of autonomy without charging)
- External power connection for charging via a phone charger

Communication:

- NB-IoT mobile network chip for high reliability
- Real-time control (under 30 seconds)

Connections:

- 2 or 4 connections
- 1 pressure & 1 valve per connection each
- Solenoid valves 9V or 12 V



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Feldfühler GmbH
Kortscher Str. 97,
IT-39028 Schlanders

+39 0473 711108
support@feldfühler.app
<https://feldfühler.app>