

FIEDLER

Variable monitoring system with wide software

Low purchase and operational costs

Wide selection of sensors

GPRS communication

Warning SMS system

Auto diagnostics

Data hosting on producer's server

Long-term operation without external supply



Gagin station Tetrevčí potok
Operates: PF UK in Prague
Mounting: M4016-G3, US1200

Basic description

FIEDLER-MAGR Company produces field data loggers and telemetric stations with build in GSM/GPRS+SMS module in tough and mechanically resistant design, that is suitable for long-term measuring in outdoor world. Machines work reliably in a wide temperature range; they endure wet and dusty surrounding, are usually supplied from its own batteries or from charging accumulator and are characterized by great number of universal inputs and measuring channels and by wide software.

For application that needs more connected detectors and sensors or where there is a need to connect sensors with higher current consumption is suitable M4016 measuring station. This might be completed with solar panel for permanent recharging of build-in, service-free accumulator.

Long term measuring of one or two values is more suitable for a small telemetric set STELA, which is possible to do an everyday transfer of measured data to server, with no need of battery exchange.

Characteristics of monitoring system

- Compact mechanical design with high protection
- Modern electronics with low electricity consumption
- Great number of universal inputs and recording channels
- Wide software and easy parameterization
- Automatic data transfer into the Internet and data hosting provided on producer's server including exports
- Safety access to data through web browser
- Possibility of warning SMS sending



Telemetric configuration STELA



Station M4016



Water Supply
Hydro-meteorology
Science & Research

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Examples of monitoring stations



ČHMÚ gaging station-Stodůlky area
Mounting: M4016-G telemetric station



Combined psychrometric station and gaging station supplemented with water temperature and air temperature measuring.

Operator:
Povodí Vlatavy s.p.

Mounting: M4316-D3



Combined meteorological station HBÚ AVČR, supplemented with water level monitoring in holes and in open flows, it also measures water chemism



W1
Winter speed sensor



Drainage water measuring
Area: Kojčice
Operator: VUMOP Prague

Gaging stations

- Water level measuring of instantaneous flow, quantity of water that flew through and water temperature is possible to enlarge of pH monitoring, conductivity monitoring, cataract monitoring and absorbed oxygen monitoring....
- Automatic data transfer to server and sending of warning SMS after achieving of presented intervals enables to incorporate stations into an anti flooding system
- More than 150 installations on big rivers and on small local flows till this time.



US1200

Ultrasonic water level sensor with small current consumption designated for smaller rivers



EasyTREK

Ultrasonic water level sensors with measuring scale from 4m to 15 m



LMP307

Immersion pressure water level sensor suitable for most applications including underground waters monitoring

Psychrometric stations

- Shuttle psychrometer SR03 and SR02 with collecting board 500cm²(200cm²) and with distinction 0,1 mm (0,2mm) of waterfalls might have itself recording unit and automatic data transfer on server.
- Beside waterfalls, temperatures, water levels and other values might be measured
- Transit calculation of sliding waterfalls total might activate warning SMS sending in case of rainstorm.
- Heated type of psychrometer is designated for a yearlong operation



SR03/V

Self-heated funnel cuts fumes.



SR03/V

Heat regulator controls independently both heating sections



Meteorological stations

- Meteorological station based on M4016 registered unit enables measuring of air temperatures, soil or water in several levels, speed and air set monitoring, monitoring of relative soil moisture, global radiation incident and reflected, water falls and eventually other physical values as water levels, water flows, electro-mechanic water features etc are.
- All data from station are whenever accessible throughout the web browser.



RV12

Sensor of relative air moisture and relative air temperature in radiation cover Rk10



SG002

Sensor of global radiation - pyranometer



W2

Sensor of winter speed and winter direction

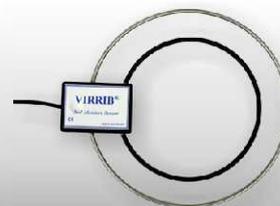
Special monitoring stations

Some special measuring stations mainly equipped with telemetric data transfer were built for different research institutes and universities.

- Floating station for monitoring of up to 16 water temperatures in different depths, supplemented with measuring of basic meteorological values and radiation flows.
- Small telemetric STELA sets suitable for example for monitoring of water levels in drill holes.
- Measurement of soil temperatures and soil moisture in different depths and for different soil structures.

Controlled irrigation system

Other M4016 application are some extensive watering systems adjustable through the Internet, that might operate many independents valve sections and simultaneously monitor soil moisture and other values.



VIRRIB
Soil Moisture Sensor