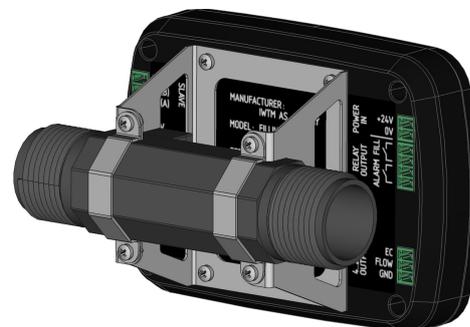


DIGITAL FILLING UNIT

DATA SHEET



OVERVIEW

Digital Filling Unit is intended for filling heating/cooling systems with demineralized water, maintaining pressure and detecting leakages. If connected to the Internet via WiFi or SIM-card, it can be controlled remotely from a mobile application. Also the unit can be connected to a building control system by RS485 (Modbus/RTU) and 4..20mA outputs. Can be used with any demineralizer like Profill® or Purotap®.

SPECIFICATIONS

Pipe diameter	1"
Connectivity	1. WiFi 2. Cellular (nano-SIM)
WiFi band	2,4GHz
Cellular technologies	LTE Cat-1, GPRS, EDGE
Power supply	24VDC 0,3A
Ingress Protection Code	Front panel: IP67 Body: IP42
Flowmeter type	Turbine
Dimensions	140×100×96 mm

FUNCTIONS

Measure, detect and display:

- water conductivity
- flow
- total water volume since last reset
- water temperature
- pressure
- leakage

Outputs:

- 4..20mA for conductivity and flow
- Modbus/RTU (galvanically isolated)
- flow valve (optional), max 250V/5A
- external alarm (flashlight or buzzer), max 250V/5A

Control:

- Water conductivity
- Pressure
- Leakage

In case of leakage or conductivity/pressure are out of range the DFU will:

- warn by flashing the value on display
- beep periodically with buzzer;
- activate alarm relay output;
- close flow valve (if connected);
- send a push-notification to mobile app.

