



Flow Measurement & Control Specialists

Company presentation

About Us

Main activities:

 Design, development, production and distribution of electromagnetic flow meters

Arkon product range:

- Electromagnetic flow meters
- Ultrasonic flow meters and levels
- Parshall flumes
- Flow indicators

Arkon is a Czech based company established in 2000.

Arkon offers its products via worldwide distributor network.

Arkon offers a flexible approach to the customers needs, offering customized solutions to each applications.

Arkon's main activity is the design, production and distribution of electromagnetic flow meters. Arkon's product range is complimented with ultrasonic flow meters and level meters, Parshall flumes and flow indicators.

Our philosophy

"We believe quality of work should show in every product, every customer interaction, and every order shipped worldwide.,"

FLEXIBILITY

CUSTOMIZED SERVICE

R&D

INDIVIDUAL APPROACH

To customer needs and technical development

To offer the best solution to customers

To offer products with newest technologies, meeting customers requirements

To work with our customers on a personal basis, understanding individual customers needs.

Our development team can offer customized services for various projects in communication systems and adjusting functions of the flow meters. We also offer development services in flow measurement and control to other customers.

OEM cooperation available

MAGX2

MAGB2

MAGS1

MAGE1

AgrimagP2











2011	GPRS, GSM-SMS modules for MAGX2 flowmeter Agrimag battery powered plastic flowmeter
2012	GSM-SMS module for MAGB1 battery powered flowmeter
2013	AgrimagP power supplied plastic flowmeter with output
2014	VeriMag verificator for MAGB1 type
2015	Wi-Fi communication module for MAGX2
	IP68 Transmitter for MAGX2 and MAGB1
2016	AgrimagP2 with 4-20 mA output and RS485 Modbus RTU
2017	arkon.track – on-line telemetry solution external pressure and temperature module input for MAGX2

2018	New power supply for MAGX2
2019	Verification tools for MAGX2 and MAGB1 Flowmeters M-Bus communication for MAGX2
2020	MAGB2 – new generation of battery operated flowmeter MAGE1 – new economic flowmeter
2021	MAGX2 Battery back-up solution
2022	M-BUS module for MAGB2
2022	Sigfox and Narrowband for MAGX2 and MAGB2
2022	Solar Panels operation for MAGB2
2022	Reduce bore body sensor for MAGX2 and MAGB2, installation with requirement of U0D0

- Current development
 - MAGI1 Insertion type electromagnetic flowmeter
 - Verificator VeriMag3
 - Inovative Transmitter for MAGX2
 - Ultrasonic flowmeter USMX1

Success stories

- Mexico, 2007, Water wells Government tender (300 pieces)
- Chile, 2011, Mining industry Bluetooth communication solution
- Bahrain, 2015, Ministry of Works
- Qatar, 2016 & 2017 Qatar Metro Rail
- Bahrain 2017 TUBLI WTTP Installation of 1st Non-Contact Radar Systems in GCC
- Peru, 2017, Water distribution project SEDACHIMBOTE SEDAPAR
- Peru, 2019, Water distributor project JULIACA (22 pieces)
- Mexico, 2020 Guadalajara Deep well measurement
- Mexico, 2020 Chihuahua drinking water distribution network
- Bahrain, 2021 Ministry of Agriculture
- Qatar, 2021 Marriott Refurbishment project

Instalation References

Water Distribution, Peru, 2019

Grey Water Systems, Sri Lanka, 2020

Water Distribution, Vietnam, 2018







Water Monitoring, Bahrain, 2020



Water Distribution, Chile, 2017



Water Management, Egypt, 2017



Instalation References

Water Distribution, Egypt, 2018



Farming Industry, Chile, 2020



Farmig Industry, Chile, 2020



Water Distribution, Ukraine, 2017



Water Management, Chile, 2017



Water Management, Egypt, 2018



Instalation References

Mining Industry, Chile, 2021

Rural Potable Water Systems, Chile, 2020

Oil Industry, Chile, 2020



Water Distribution, Australia, 2020



Water Management, Egypt, 2018



Water Waste Industry, Chile,2012







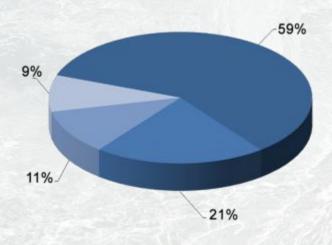
Industries and applications

59% Water and waste water treatment

21% Industrial

11% Mining

9% Others







Arkon calibration process

Calibration

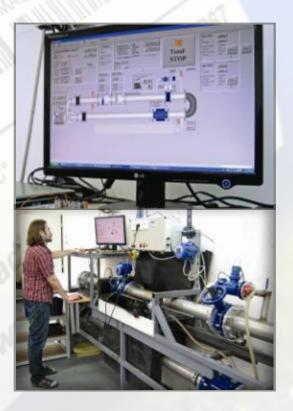
All Arkon flowmeters are calibrated at one of the Czech Republic accredited calibration laboratory facilities. All those laboratories are traceable to the main Czech Metrology Institute (CMI). CMI is the Czech national metrology body and is traceable to international standards such as TUV Germany and Delft Netherlands.

Internal calibration rig and R&D activities

Suitable for sizes from 10 to 150 mm



Independent Accredited Calibration rig (Brno, Czech Republic)



Certifications

OIML MAGX2



OIML MAGB2



WRAS Approval



ISO Certificate



Type Examination Certificate - Ukraine



IP68 Certificate MAGB2



IP68 Certificate MAGX2



Certifications

CE Certificate MAGX2



MID Certificate MAGX2



CE Certificate MAGS1



MID Certificate MAGB2



CE Certificate Agrimag



MED Approval - Bahrain



Product range: electromagnetic flowmeters MAG 2

"Build your own flowmeter"

Modular design suitable from most basic to most advanced applications.

"You don't pay for options you do not need"

"You can build a flow meter exactly as per your requirement"

"You can upgrade your flow meter at any time in the future"

- Accuracy: ±0,2% of actual value
- Temperature sensor
- Communication protocol: Modbus RTU
- Autocleaning: Automatic electrodes cleaning
- Graphic display: multi-language menu
- Intelligent sensor design: digital communication allows communication between the transmitter and the sensor up to 500m
- Data-logging: on micro SD card, software free of charge
- 3G/GPRS/GSM communication available
- MID/OIML R49 version available
- WRAS APPROVED MATERIAL for sizes up to DN600



Product range: electromagnetic flowmeters MAGB2

The second generation of battery powered flowmeter

MID/OIML R49 certified Battery powered flowmeter for applications and installations where power supply lines are difficult or expensive to install. Delivers high accuracy custody transfer solution.

- Accuracy: ±0,2 or 0,4% of actual value
- MID/OIML version available
- Modular design
 - Outputs: Frequency, pulse, 4-20 mA
 - Communication modules: 3G/GPRS, RS485, LoRa, 4G LTE + NB-IOT
 - Inputs: External temperature and pressure
- Communication protocol: Modbus RTU
- Graphic display: multi-language menu; Touch buttons
- Internal data-logger
- WRAS APPROVED MATERIAL for sizes up to DN600
- Other features:
 - Test of excitation coils
 - Empty pipe detection
 - Zero flow adjustment; Flow simulator



Product range: electromagnetic flowmeters

Reduced bore body versions of mains- or battery-powered flowmeter MAGX2 and MAGB2

MID/OIML R49 certified mains- or battery-powered flowmeter for applications and installations where piping installation conditions are difficult and U0D0 flow profile class requirements have to be met.



- Mains- or battery-powered reduced bore body electromagnetic flowmeter with battery life up to 10 years
- Accuracy class 2 (+-5% Q1-Q2, +-2% Q2-Q4)
- PTFE, Hard Rubber and Soft Rubber liners available
- Maximum applicable pressure class MAP16
- Compact and Remote configuration
- RS485 and frequency output
- Environmental class B, E2
- Flow profile class U0D0
- Temperature class T50
- Pressure loss ΔP 16
- Sizes up to DN250



Product range: electromagnetic flowmeters MAGS1

Non transmitter electromagnetic flowmeter. Unexpensive solution for applications with existing PLC system with RS485 RTU communication system

- Accuracy: ±0,2% (0,5 to 10 m/s) of actual value
- Communication: RS485 Modbus RTU
- Sizes from 25 to 600 mm (1"-24")
- Connections: DIN, ANSI, other on request
- Power Supply: 24VDC ± 10% @ 0.5A max
- Min. Media Electrical conductivity: ≥5ų
- S/cm ≥20yS/cm for demineralised water
- Flow Range: 0,1 to 10 m/s; 0,015 10.000 l/s
- Flange material: Steel 1.0036 or higher,
- Sensor protection: IP68 (NEMA 6), IP67 (NEMA 5)
- Liner: Hard Rubber, PTFE, other material on request
- Max. media temperature: 70°C (158°F) for Hard Rubber liner, 130°C (266°F) for PTFE liner in remote version
- Ambient temperature: -20° to 60°C (-4 to 140°F)
- WRAS APPROVED MATERIAL for sizes up to DN600



Product range: electromagnetic flowmeters MAGE1

Economic flowmeter with carbon steel sensor and plastic transmitter

- Sizes up to DN250
- Low-cost plastic transmitter
- IP67 protection
- High accuracy: 0,5% ((0,5-10 m/s) of actual value)
- Internal data-logger
 - 131072 records
 - 15 seconds minimal record interval
 - Saves date, time and total volume
- Outputs: 4-20 mA and RS485 outputs
- Liner: Hard Rubber, PTFE, other material on request
- Max. media temperature: 70°C (158°F) for Hard Rubber liner, 130°C (266°F) for PTFE liner in remote version
- Ambient temperature: -20° to 60°C (-4 to 140°F)
- WRAS APPROVED MATERIAL for sizes up to DN600



Product range: accessories

Battery back-up for MAGX2



Provides power to MAGX2 flowmeter when the primary source of power is unavailable.

Maximum operating time on battery: 20 hours

Maximum battery charing time: 8 hours

Dielectric gel for potting



Extra protection for sensor connection box Removable gel for any future work with electronics

RS485-USB converter



Allows to connect any RS485 communication based device directly to USB.

You can connect AgrimagP2 and MAGS1 sensor directly to PC.

Product range: electromagnetic flowmeters

Agrimag Series

- Plastic flowmeter for multiple applications
- User friendly low cost flowmeter

Agrimag

Battery powered

AgrimagP

External power supply Frequency output

AgrimagP2

External power supply 4-20 mA and RS485 Internal Data logger







Product range: Ultrasonic clamp-on

USC X series

- Ultrasonic clamp-on flowmeters
- Transit time method of measurement, suitable for liquids and gases
- No not need to stop the process
- Easy installation with own wizard for correct installation
- RS232, RS485, Modbus-RTU and HART compatible output
- Suitable for pipes up to 6000mm
- Possible to use for heat measurement (thermal energy) in combination with temperature sensor
- · Accuracy of volume flow:

1002

±1... 3 % of measured value depending on application ±0.5 % of measured value with process calibration



Product range:

Ultrasonic clamp-on

USC X 100

- Economically priced ultrasonic transmitter
- Pipe diameter range from 10 mm to 3000 mm
- Sturdy unit with LCD display and five-key keypad
- Current, open-collector and relay outputs





USC X 150

- One or two flow measurement channels
- Lockable and sturdy IP 66 enclosure
- Large internal data logger
- Current inputs for temperature, pressure and density compensation

USC X 200

- Hand-Held Clamp-On Ultrasonic Flowmeter
- · One flow measurement channel
- RS 232 interface and optional USB cable
- Battery life up to 24 hours



arkon.track

The ultimate solution for industrial monitoring

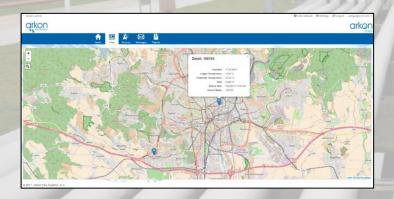
- Remote monitoring of water application within the industry from small treatment plants to country wide water distribution networks
- Each customer is issued with a unique user name and password which enables them
 to log in and view device locations on a map and see data feeds as well as historical
 data and charts for each instrument
- arkon.track can runs on your own server
- The only requirement is a GPRS coverage in order to remotely transmit data to remote servers



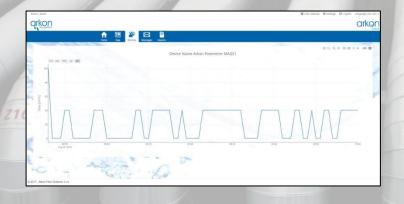




The ultimate solution for industrial control and monitoring



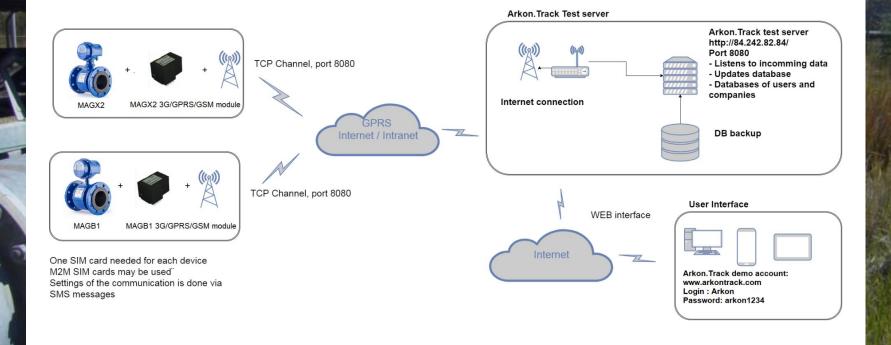




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