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# ADA FLOW



**AMF220**  
Magnetic flowmeter

[www.adaflow.com.tr](http://www.adaflow.com.tr)



Flowometer

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# AMF220 Magnetic Flowmeter

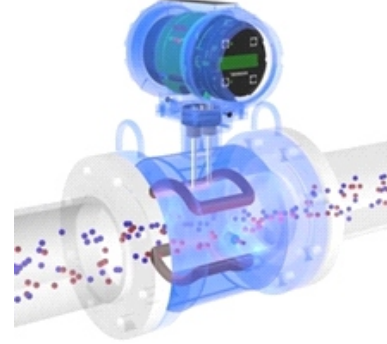


## Features:

- Independent measurement of density, humidity and heat
- Minimum short distance limit for upstream and downstream flange installation
- No moving part inside the flange
- No obstruction and pressure drop in the flow path
- Multiple outputs for project control and communication with PLC
- High resistance to a wide range of chemicals
- Ability to measure very low flows
- Flange with standard design and no need to put sealing washers
- Ability to reset the totalizer
- With information transfer system GSM/GPRS
- Ability to display flowmeter information on the monitoring site <https://www.ADAFLOW.com.tr>
- Ability to display compact or separate with custom cable size



## Introduction



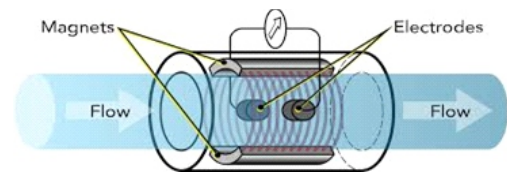
Electromagnetic flowmeters are the best choice for measuring the consumption of conductive liquids including raw water, purified water, wastewater, chemical liquids, acidic, alkaline, milk, pasty material and... due to no moving mechanical part, very high sensor strength and excellent measurement accuracy.

After a decade of production of this flowmeter with its localization and presentation in a wide level, now it is one of the most effective and valuable measuring and control devices in the country, generally in water consumption management and particularly in smart agricultural flowmeters and industrial units.

## Measurement Pattern

Electromagnetic flowmeters can measure the amount of flow with an acceptable accuracy by measuring the changes in magnetic flux caused by the speed of flowing fluid. In fact, by creating a magnetic flux in the fluid passing through the flowmeter and measuring it, an "Electromagnetic Flowmeter" can be achieved.

Due to the "Magnetic flowmeter mechanism", water or any other fluid must have some electrical and conductivity properties otherwise the measurement will face a disruption and flowmeters with different mechanisms such as Vortex or Turbine flowmeters should be used. Electromagnetic flowmeters usually work at temperatures maximum up to 80 degrees and according to the liner inside the flowmeter in different usage, the liner is made of Teflon or hard rubber and ...



# ADP900 Data logger or Pressure recorder

## Types of Magnetic Flowmeter models

Magnetic flowmeters have two parts, electrical and magnetic, which are designed and produced in two modes, Compact and Separate, according to customer's requirement and the installation location.

### Compact



### Separate



## Information transfer and save (GSM/GPRS)

Magnetic flowmeters in both Compact and Separate models have information transfer system. The information transfer system supports Modbus, DNP3, IEC104 protocols and also has the ability to work with APN sim cards.

This system has features such as internal RAM to save data up to 1,000,000 data, sampling and sending SMS.



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## Technical Specification

- **Degree of protection:** IP68 for sensor and IP67 for LCD
- **Measurement accuracy:** less than 1 % of measured flow amount
- **LCD display screen:** Two lines 61-character with the ability to make changes in LCD function
- **Power supply:** 220V AC and 12-36V DC with backup battery(custom-made)
- **Protection:** with voltage control circuit
- **Calibration:** Periodic calibration operation without the need to cut off the fluid flow
- **Flowmeter's operating ambient temperature:** -20 to +80 °c
- **Internal lining working temperature:** from 0 to +60°c and 0 to +120°c (with custom lining)
- **Display units:** m3/s, m3/min, m3/h, L/s
- **Definable warnings:** Maximum Flow, Minimum Flow, Reverse Flow
- **Measurement range:** 0.5 m/s to 12 m/s
- **Lining:** PTFE, Polyurethane (PU)
- Ability to show fluid speed
- **Sensors:** with 3 electrodes for measurement and 1 sensor for detection of empty pipe
- **Outputs:** ability to connect to a telemetry system, digital output, RS485(Modbus), analog port 4-20 mA and 2-20 mA (in isolation) and pulse output
- Ability to send collected data via LoRA

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