

METERING AND MEASUREMENT SYSTEMS

Ultrasonic Calorimeters (Heat Meters)

PRODUCT OVERVIEW

ATLAS UKM series ultrasonic calorimeters measure energy consumption in heating and cooling lines. M-Bus, pulse and LoRa/LoRaWAN communication options are available.



TECHNICAL SPECIFICATIONS

Product description	Ultrasonic heat meter used in heating and cooling lines
Measurement principle	Ultrasonic flow measurement; the flow sensor has no moving parts. Service life depends on the model, water quality and operating conditions.
Calculation method	$Q = m \cdot c \cdot \Delta t$ (energy calculation based on flow rate and temperature difference)
Body material	Brass, cast iron
Display	Detachable from the body, easy-to-read 8-digit LCD display
Temperature range	5°C - 90°C
Minimum temperature difference (Δt)	0.1°C
Magnetic protection	Unaffected by magnetic fields
Pressure class	PN16 (maximum allowable pressure: 16 bar; test: 16 bar)
Protection rating	The catalogue specifies IP65 for the UKM series. The protection rating of the ordered model and its components must be confirmed from the technical data sheet and product label.
Accuracy class	Class 2

Technical values summarise the product family. Options, dimensions and operating limits must be confirmed for the selected model.