

ROBUST HIGH QUALITY FLOW MONITORS

ELETTA STEAM



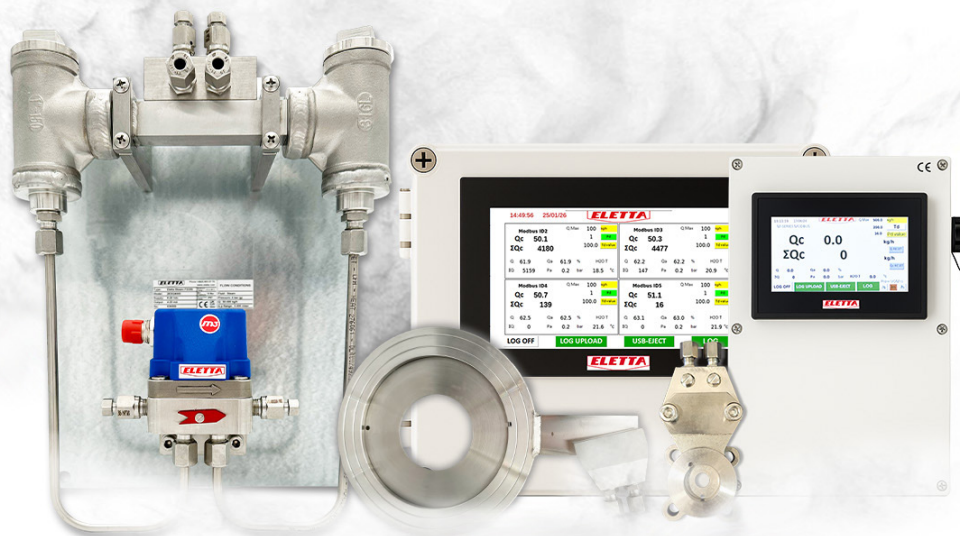
Reliable Steam Flow Measurement

Introducing Eletta Steam, a robust, cost effective design for steam flow measurement. Designed for accuracy and ease of use, Eletta Steam is your go-to solution for all of your steam flow monitoring needs.

Whether it be determining your efficiency of your boiler steam flow or monitoring steam flow in your sterilization lines, Eletta Steam has you covered.

Eletta has been manufacturing high quality flow measurement instrumentation for over 75 years and are well known in the industry for superior quality and support. Eletta products are used where operational safety demands, efficient supervision, and rugged installation is required.

The Eletta Steam Flow Steam system is based on the proven and dependable differential pressure principle, using an orifice plate as the primary flow element.



How it Works

Eletta Steam consists of 3 parts; A User Interface, a Base Unit, and a Pipe Section. The Pipe Section is in stainless steel and is available for pipe sizes from 1/2" up to 20" and includes an Orifice Plate. Each Orifice Plate is sized at our factory based on the customers requested flow range and the process operating conditions. The Base Unit consists of a mounting plate and 2 steam condensing pots and a Control Unit. The Pipe Section is connected to the Base Unit via 6mm stainless steel tubings.

The benefits of this design are many. Having a flow element with no moving parts ensures reliable, low/no maintenance for years and years. The Pipe Section houses no electronics and can accommodate very high temperatures.

The remote Base Unit allows for easy access to the condensing pots and electronic assembly for easy of maintenance and wiring. The Control Unit is our M-series.

Key Features

- For pipe sizes from 1/2" up to 20"
- 4-20mA, Modbus TCP/RTU
- Alternate Control Units available
- Low Maintenance
- Ease of Installation
- No Moving Parts

User Interface HMI

- Touch-screen Display
- Historical Trends & Graphs
- Read flow data via Modbus
- Transfer logfile via SD-card or USB flash

For installations of more than one Control Unit the Steam Multi User Interface can be used to connect up to 4 Control Units.



Steam Multi



Steam Single

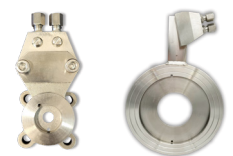
Base Unit

- Mounting Plate
- Condensing Pots
- Control Unit - M-series
- 6mm Stainless Tubing



Pipe Sections

- 1/2" to 20"
- Stainless Steel
- Threaded or Flanged
- 6mm Tubing Connections
- Shut-off valve



Eletta Steam Control Unit options

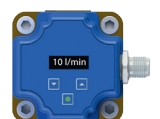
Marin certified - Cover in Stainless Steel

Differential pressure transmitter certified for marine applications in accordance with DNV classification rules – ships, offshore units, and high-speed and light craft. It has been type-approved by DNV for installation on vessels classified by DNV.



Rate Total Display

Visualization of the flow rate and flow total values for direct reading for non-steam compensation.

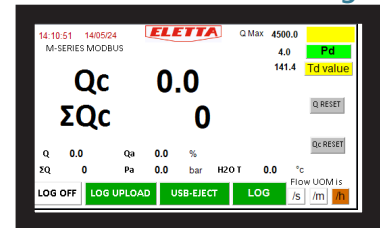


Product information - User Interface Screen

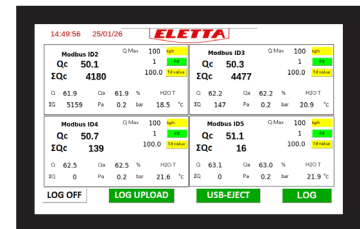
The User Interface display the following values:

- **Qc** is the compensated measured mass flow.
- **Qc TOTALIZED** is the compensated measured mass flow totalizer.
- **Q** measured flow.
- **Q TOTALIZED** measured flow totalizer.
- **Qa Percentage** measured flow of Q max sent from the Control Unit.
- **Pa** is the Static pressure sent from the Control Unit.
- **H2O T** is the Sensor Temperature of the water in condensing pots sent from the Control Unit.

User Interface Screen - Single



User Interface Screen - Multi



Technical data

Flow range	Steam: will be calculated according to application	
Flow turndown	10:1	
Cover. Control Unit	PA 12 Grilamid with conductive layer inside or optional Stainless Steel	
Wetted Materials	Stainless Steel & FPM	
Min pressure*	- M310: 1 bar(g) (14,5 PSI) - M325: 1,75 bar(g) (25,4 PSI) * Minimum pressure to get a proper reading, provided there is a flow in the system	
Max pressure	- M310: 10 bar(g) (145 PSI) - M325: 25 bar(g)	
Temp. Control unit	-10°C to 100°C. (Sensors compensated from -10°C to 80°C)	
Ambient Temp - With display	-10°C to 70°C	
Max. temp. Pipe section	-10°C to +230°C (+14°F to 446°F)	
Process connections:	Threaded: 1/2", 3/4", & 1"	Flanged: 1/2" up to 20"
Accuracy	+/-0,5-1% FS of the default differential pressure at reference conditions	
Communication	Modbus RTU/TCP	
User Interface	optional analog 4-20 mA	

Certificate



For complete specification of various models please refer to the manual

CONTACTS

Sweden
+46 (0)8-603 07 80
info@eletta.com

France
+33 470 996 560
contact@eletta.fr

Germany
+49 30 757 66 566
info@eletta.de

USA
+1-412 912 6900
info.usa@eletta.com

China
+86 106 718 9590
eletta@eletta.com.cn

India
+91 120 429 2444
india@eletta.com

Indonesia
+62 811 118 9318

