Job or Customer :	
Location :	
Engineer :	
❑ Complies with Spec ❑ Alternate	Notes :
Contractor :	
HeatLink Rep :	
Submitted By :	Date :
Approved By :	Date :
P.O. Number :	Date :

Description

The HeatLink BTU Metering Panel includes a recessed housing (visible parts are satin coated) with coin/screwdriver locks , stainless steel manfolds in 2, 3, or 4 loop configuration with 1.5 US gpm circuit flow rate and flow meters, a prewired 24Vac transformer, and StatLink© Base Module.

The BTU Meters feature a multi-function LCD display and electronic calculator, and have a nominal flow rate of 2.5 m^3/h and an operating pressure of 16 bar.

Warm and Cold Water Meters feature singlejet dry-dial meter with magnetic coupling, and are made from high grade wear resistant and corrosion proof materials. They have a flow rate of 3.125 m^3/h and an operating pressure of 16 bar.

Technical Data

Panel & Piping

Max Ambient Temperature:	120°F
Min Operating Temperature:	40°F
Max Operating Temperature:	200°F
Max Operating Pressure:	125 psi
Piping:	1" 304SS Tubing
Piping Connections:	¾" and 1" FNPT
Material - Backplate:	16 Gauge galvanized steel
Material - Enclosure:	Powder coated steel

Manifold

Material:	Stainless Steel EN 1.4301 (X5CrNi18-10) which is equivalent to SAE 304 (V2A)
Max Working Pressure:	145 psi (10 bar)
Tested Pressure:	145 psi @ 180°F (10 bar @ 82.2°C)
Maximum Trunk Flow Rate:	18 US gpm (4.1 m^3/h)
Maximum Circuit Flow Rate:	1.5 US gpm (0.34 m^3/h)
Supply & Return Piping:	1" FNPT
Operating Temperature:	160°F (70°C)
Maximum Temperature:	230°F (110°C)
Minimum Temperature:	32°F (0°C)

This information is for reference only. Domestic Hot & Cold water meters and BTU Meters and their formal submittal documents are to be supplied by QMC Metering Solutions.

BTU Meter

Temperature Range	32°F to 194°F
Temperature Difference	3 to 90K
Battery Lifetime (Execution with battery)	10 years
Environment Temperature	41°F to 131°F
Storage Temperature	14°F to 140°F
Nominal Diameter	20mm
Operating Pressure	232 psi
Nominal Flow Rate	11 gpm
Maximum Flow Rate	22 gpm
Minimum Flow Rate	2.6 gph
Max. Temperature	194°F

Water Meters

Nominal Diameter	20mm
Nominal Pressure	232psi
Nominal Flow Rate	11 gpm
Maximum Flow Rate	13.76 gpm
Partial Limit Horizontal ±3%	13.21 gph
Minimum Flow Rate Horizontal ±5%	8.27 gph
Max. Temperature	194°F

Qty	Stk. #	Heating Output	Heating Flow
	BTU-2	30,000 BTU	3 gpm
	BTU-3	45,000 BTU	4.5 gpm
	BTU-4	60,000 BTU	6 gpm

Standards / Listings

Panel

CAN/CSA-C22 No.14, UL508
cETLus

BTU Meters

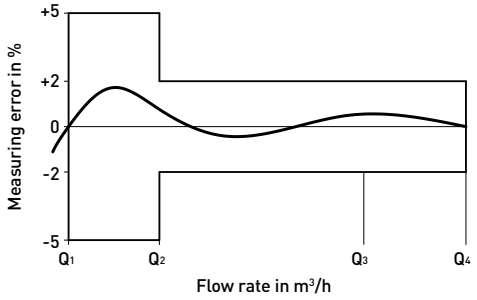
EN 60870-5.M-Bus protocol
EN 1434 - class 2

Max Pressure differential across (closed) valve with actuator:

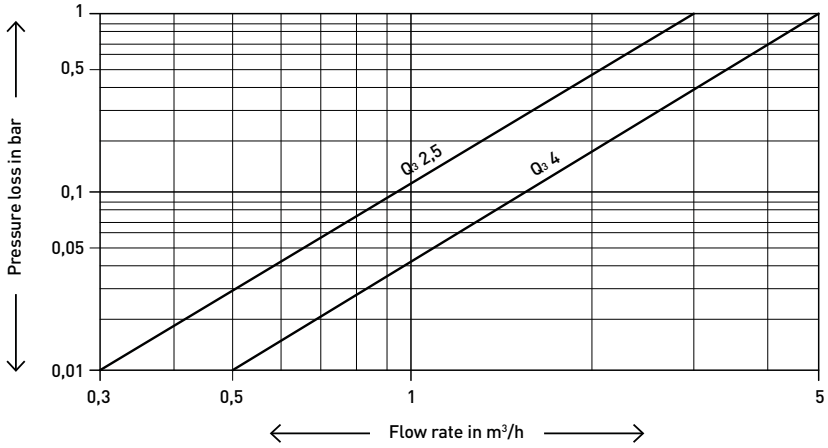
56121	56200 Series
138 ft head 4 bar	138 ft head 4 bar

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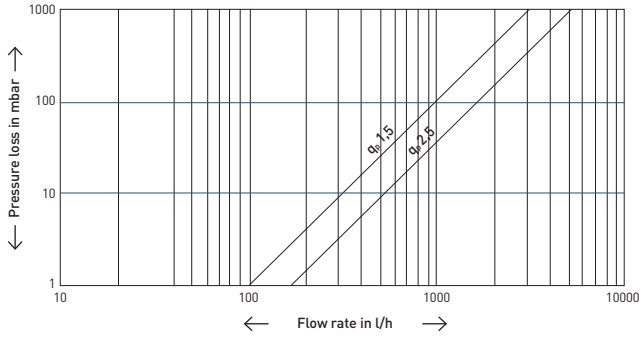
Water Meter Measuring Error Curve



Water Meter Typical Head Loss Curve

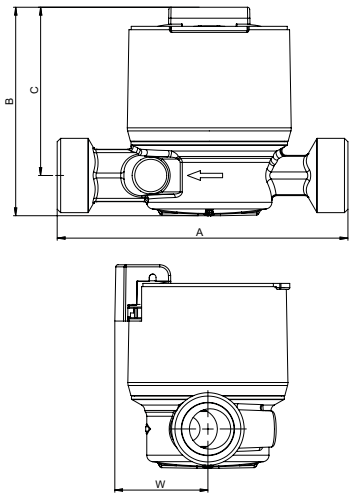


BTU Meter Typical Head Loss Curve

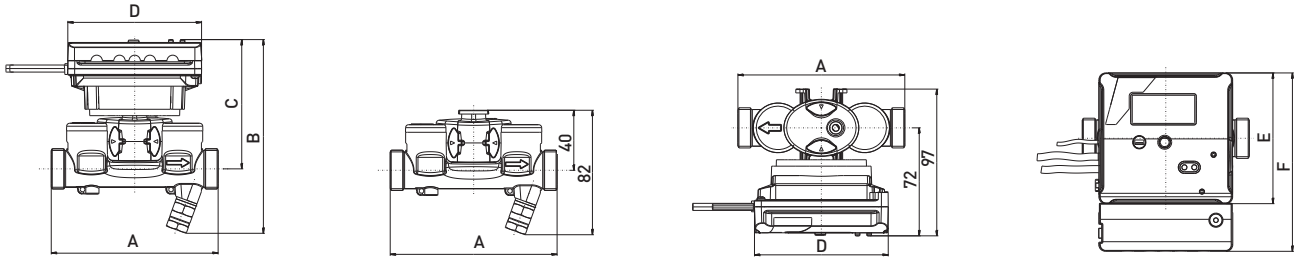


Dimensions	BTU Meter		Water Meters	
Length without Couplings	A	130mm	A	130mm
Height Total	B	128mm	B	94mm
Height from Pipe Center Line	C	86mm	C	76mm
Width Calculator	D	88mm		n/a
Height Calculator (Small Housing)	E	86mm		n/a
Height Calculator (Large Housing)	F	126mm		n/a
Installation Depth from Pipe Centre Line		n/a	W	43mm

Water Meter Dimensional Drawing



BTU Meter Dimensional Drawing

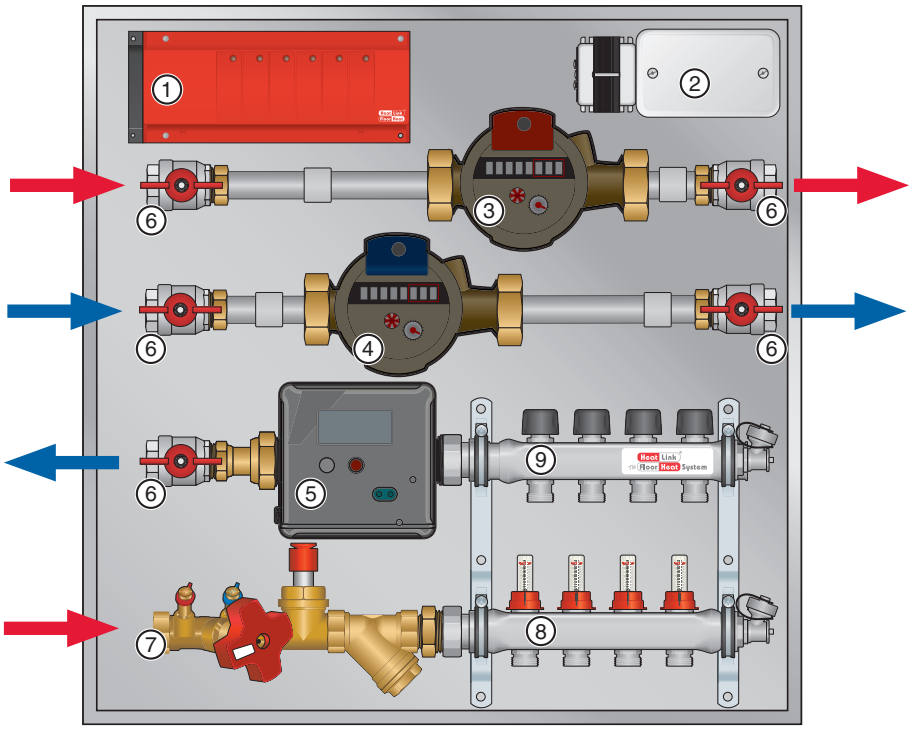


Toll Free: 1-800-661-5332
Canada Fax: 1-866-450-1155
USA Fax: 1-800-869-6098

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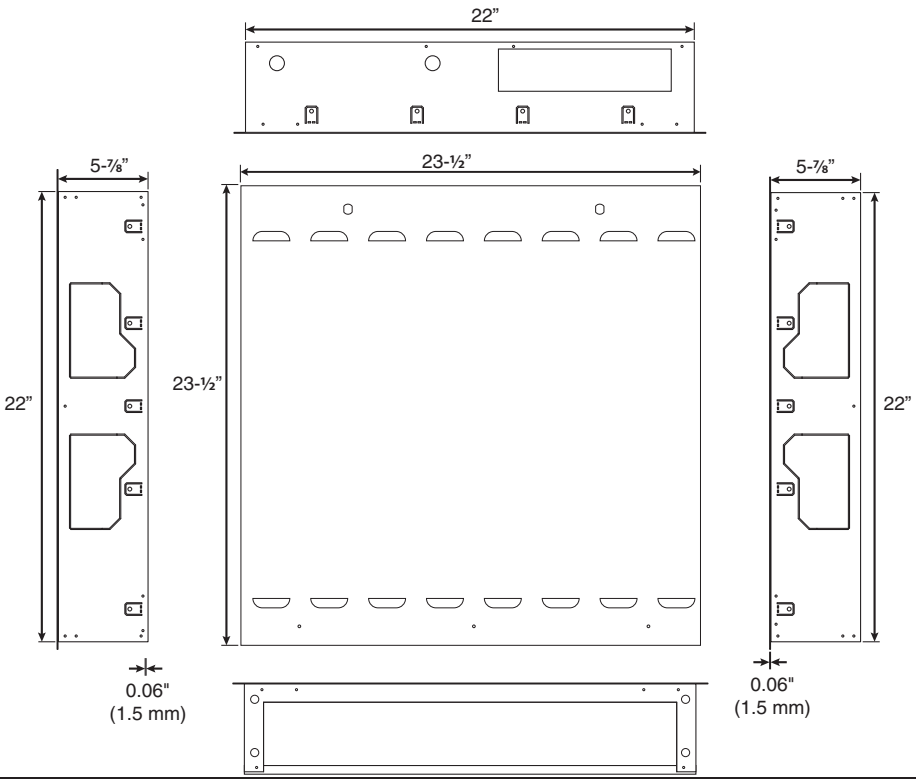
Panel Components

1. StatLink® Control
2. Electrical Box w/24Vac Transformer
3. Warm Water Meter (Not Included - Shown for reference only)
4. Cold Water Meter (Not Included - Shown for reference only)
5. BTU Meter (Not Included - Shown for reference only)
6. Isolation Valve
7. Balancing Valve
8. Supply Manifold
9. Return Manifold



BTU Panel does NOT include BTU & Water Meters - Diagram shown with BTU & Water Meters for reference only!

Panels are shipped with Spool pieces in place of the BTU & Water meters, which are to be removed when installing the meters.



Installation
Installation must follow all of HeatLink's instructions and guidelines.

Maintenance
Maintenance must follow all of HeatLink's instructions and guidelines.

Related Documents
- BTU Metering Panels Installation, Operation, and Maintenance Manual Instructions (L6BTU) - *Coming Soon*
- HeatLink Limited Heating Warranty

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