TECHNICAL SHEET

Unique benefits of GPI QStar UFM:

Install and setup in less than five minutes! Quickstart Guide / Online Help / Electronic User's Manual

Large, backlit LCD screen

Anti-Noise Deflector Technology

Automatic Fluid Control Technology

Parameters Calculator (Proprietary)
- Available via USB drive, Smart-phone webb app and online
- Calculate flowrate accurately based on pipe size and velocity
- Includes Reynolds number calculation

GPI Toll-Free Tech Support
Available 8-5 p.m. CST, M - F

Heat Resistant (up to 300° F)
Transducers Included

Integrated Heat Quantity Measurement Capabilities
- Heat measurement inputs
- Pre-programmed software

Online Diagnostics
Signal Strength Analyzer

Three sets of Transducers cover 1/2" to 240" pipe sizes

Cross-Correlation Signal Detection

SPECIFICATIONS	QSTAR PORTABLE	QSTAR FIXED
Operation:	Intuitive via 8 main keys (Soft Keys), plain text display	
Languages:	English, Spanish and French	
Units:	Metric / US	
Outputs:	2x 4-20 mA, 1x Relay, 1x MicroUSB 1x Pulse	2x 4-20 mA, 1x Pulse, 1x MicroUSB 1x Relay, RS232 (opt.)
Inputs:	2x PT100	
Integrated Data Logger:	2 GB	N/A
Data Logged:	Measurement and totalizers	N/A
Data Format:	Can be exported into standard office programs	N/A
Memory Cycle:	Adjustable, 1 second to 24 hours	N/A
Power Supply:	Integrated rechargeable battery and 110V AC adapter	85-264VAC, 18-36VDC (opt.)
	Battery Duration: Approximately 5 hours	Power Consumption: 10 W
Protection Class:	IP40	IP65, Ex/ATEX (in preparation)
Housing:	Aluminium, PVC	PVC, wall-mounted
Dimensions:	10.4 x 7.5 x 2.7 in.	10.2 x 9.4 x 4.7 in.
Operating Temp:	-4° F to 140° F (-20° C to 60° C)	
Transducer Temp:	-40° F to 300° F (-40° C to 149° C)	
Weight:	3.3 lbs	2.9 lbs
Display:	QVGA (320x240), black and white, adjustable backlighting	
Carrying Case:	20 x 16 x 16	N/A

MEASUREMENT	
Principle:	Ultrasonic transit time difference with AFC technology
Values Meas:	Flow, flow speed, heat flow
Totalizers:	Heat quantity, volume
Meas. Range:	+/- 98 ft/s
Signal Damping:	0 - 100 sec (adjustable)
Diagnostic Functions:	Acoustic velocity, signal strength, SNR, signal quality, amplitude, energy Oscilloscope function allows graphical display and analysis of signals.

MEASUREMENT ACCURACY		
Inner Diameter Ø	Range	Deviation
.39 - .98 in.	6.56-98.42 ft/s	2.5% of reading
	0-6.56 ft/s	± 0.16 ft/s
.98-1.97 in.	6.56-98.42 ft/s	1.5% of reading
	0-6.56 ft/s	± 0.10 ft/s
1.97-11.81 in.	6.56-98.42 ft/s	1% of reading
	0-6.56 ft/s	± 0.07 ft/s
11.81-236.22 in.	3.28-98.42 ft/s	1% of reading
	0-3.28 ft/s	± 0.03 ft/s
Repeatability for majority of applications is <0.2%		

Model No.	Description
QME05	Ultrasonic Flowmeter (ENERGY-FIXED, .5 MHz) 8" - 240"
QME10	Ultrasonic Flowmeter (ENERGY-FIXED, 1 MHz) 1.5" - 16"
QME20	Ultrasonic Flowmeter (ENERGY-FIXED, 2 MHz) .5"- 4"
QMF05	Ultrasonic Flowmeter (FIXED, .5 MHz) 8" - 240"
QMF10	Ultrasonic Flowmeter (FIXED, 1 MHz) 1.5" - 16"
QMF20	Ultrasonic Flowmeter (FIXED, 2 MHz) .5" - 4"

Model No.	Description
QMP05	Ultrasonic Flowmeter (PORTABLE, .5 MHz) 8" - 240"
QMP10	Ultrasonic Flowmeter (PORTABLE, 1 MHz) 1.5" - 16"
QMP20	Ultrasonic Flowmeter (PORTABLE, 2 MHz) .5" - 4"
QMF-PT100	Temperature Sensor Kit, FIXED (16 FT)
QMP-PT100	Temperature Sensor Kit, PORTABLE (16 FT)
	Pipe Wall Thickness Gauge