

## Product Features

- *Matched MIST Temperature Transducers*
- *Quick hook-up connectors*
- *Battery powered*
- *Analog output alligator clips*
- *Robust design*
- *Shielded heat resistant transducer cables*
- *Temperature Transducer mounting kit*
- *Pre-wired cables and connectors*

## Description

The BTU (British Thermal Unit) Metering kit comes with everything you need to use with the Fuji Electric Portaflow-C Ultrasonic Flow Meter.

The MIST Temperature Transducers come pre-calibrated and perfectly matched. The MIST Transducers (Microprocessor Integrated Sensor Transmitter) maintain a high degree of accuracy over the entire temperature range and over an extended period of time.

The Metering Module Interface box offers an efficient and easy way to start immediate BTU measurement. The interface box allows easy hook-up of the temperature transducers and allows access to the Portaflow-C's analog output via the attached alligator clips.

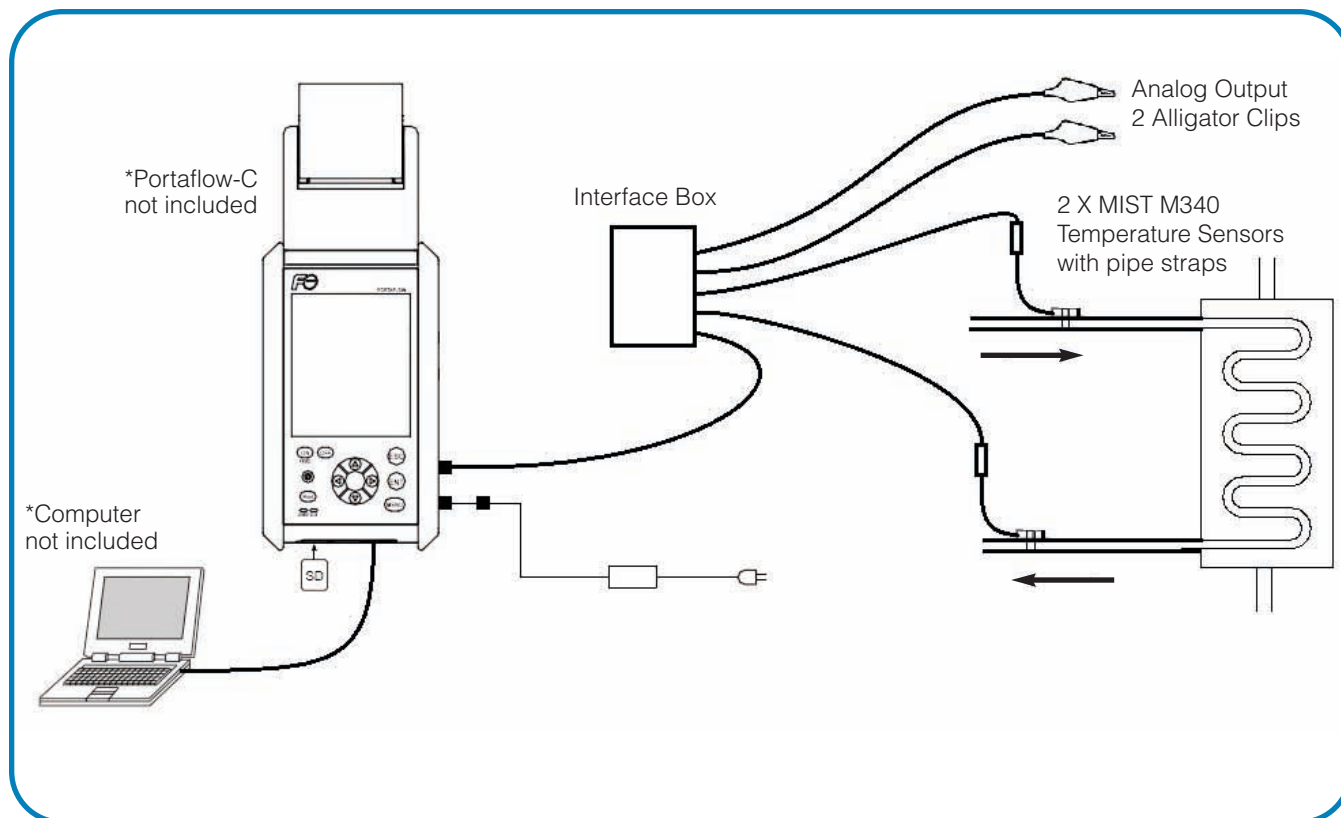
The interface box is battery powered and supplies the power for the two temperature transducers maintaining the portability of your Portaflow-C system.



## Contents

- **Transducers**
  - Matched surface mount clamp on MIST M340 Series Temperature Transducers (2)*
  - Stainless steel overbraid teflon cable with micro M12 male connector*
- **Interface Box**
  - Battery Powered 2 X 9V*
  - Quick hook up M12 connectors for Temperature Transducers*
  - 6 position plug for Portaflow*
  - Alligator clips for auxiliary analog output*
  - \*Optional Rechargeable Interface Box with AC adaptor is available*
- **Transducer Mounting Kit**
  - 2 adjustable stainless steel pipe straps (for up to 24" diameter)*
  - Heat Conducting Paste (1 tube)*

## Setup Diagram



### Technical Specifications

#### BTU Metering Kit

##### Transducer:

##### Electrical Properties

Sensor Temperature Ranges :	0°C to 50°C, or 0°C to 150°C standard ranges
Output :	4-20mA loop powered, linear to temperature
Input Power Supply :	9-32VDC, polarity protected
Supply Effect :	0.001 % /V
Accuracy :	Factory calibrated as a pair Delta T error ≤ 0.08 °C on total range
Maximum Loop Resistance :	[(Vsupply - 7) * 40] ohms
Sensor Open Circuit :	Upscale 24 mA
Warmup :	30 seconds
RFI Effect :	1 % or less typical
Isolation :	500VDC Input / Output
Temp. Effects :	±0.001 % of Span/oC
Long Term Drift :	≤0.1 % FS /Year

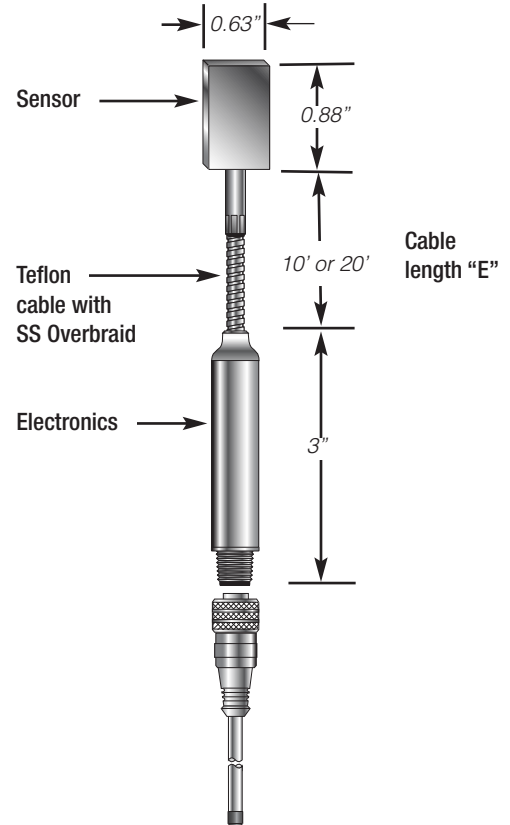
##### Mechanical Properties

Probe and Housing Material :	Sensor surface pad Brass/SS316 transition Pad dimensions: 5/8"W X 7/8"L X 1/4"thick
Cable Material :	Stainless Steel overbraid over Teflon Electrical Connection: Micro M12 Male
Protection :	NEMA 6P (IP67), hermetically sealed
Storage Temp. Range :	-40°C to 80°C (Electronics only)
Operating Temp. Range :	-40°C to 80°C (Electronics only)

##### Interface Box :

Material :	ABS Plastic
Environmental :	NEMA4X
Cable Glands :	Nylon
Batteries :	2 X 9Volts
Cable Connectors :	6 position plug (Portaflow analog I/O) Alligator clamps (Portaflow A/O) Transducer: 2 X Micro M12 female

#### MIST M340 Transducer



### Custom Builder

MODEL 1 2 3

FSC-BTU-KIT -  -  -

BOX1 CODE	Calibrated Temperature Range
50	0°C to 50°C (32 / 122°F)
150	0°C to 150°C (32 / 302°F)

BOX2 CODE	Cable Length "E"
10	10 feet
20	20 feet

BOX3 CODE	Kit Version
A	Alkaline battery
R	A/C power with chargeable battery