

# BTU Metering Kit

## FSC4-BTU-KIT

### Product Features

- *Compatible with Fuji FSC4 Series Flow Computer*
- *MIST M340 Temperature Transducers Match Paired to Accuracy of better than 0.1°C over the entire temperature range*
- *Temperature Transducer mounting kit supplied*
- *Battery powered, Optional Rechargeable Battery Kit Available*
- *Robust design*
- *Analog output via alligator clips*
- *Quick pre-wired hook-up cables and connectors*
- *Heat and chemical resistant transducer cables*

### Description

The FSC4 BTU (British Thermal Unit) Metering kit comes with everything you need to use with the Fuji Electric Portaflow-C FSC4 Flow Computer.

The MIST M340 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 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 the Portaflow-C.

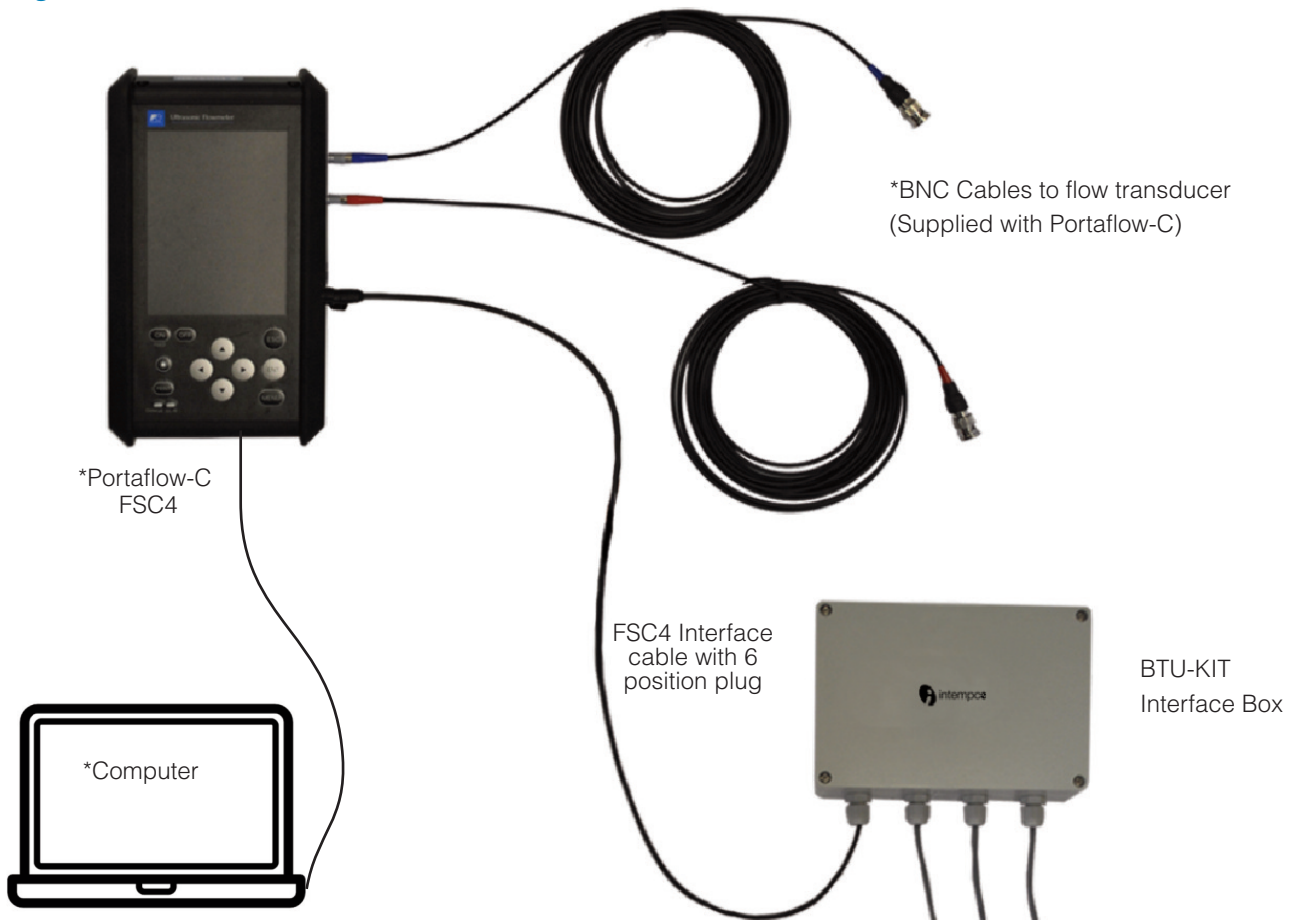
Available with 2-pack 9-Volt alkaline batteries, or rechargeable NIMH battery pack.

### Contents

- **Transducers:**
  - Matched pair of surface mount clamp-on MIST M340 Temperature Transducers.*
  - Comes with Stainless steel overbraid Teflon cable and micro M12 male connector*
- **Interface Box**
  - Battery Powered 2 X 9V*
  - Optional rechargeable battery kit with AC adaptor*
  - Quick hook up M12 connectors for Temperature Transducers*
  - 6 Position plug for Portaflow FSC4 Series Flow Computer*
  - Alligator clips for auxiliary analog output*
- **Transducer Mounting Kit**
  - 2 adjustable stainless steel pipe straps (for up to 24" diameter)*
  - Heat Conducting Paste (1 tube)*
- **Prewired cables and connectors**

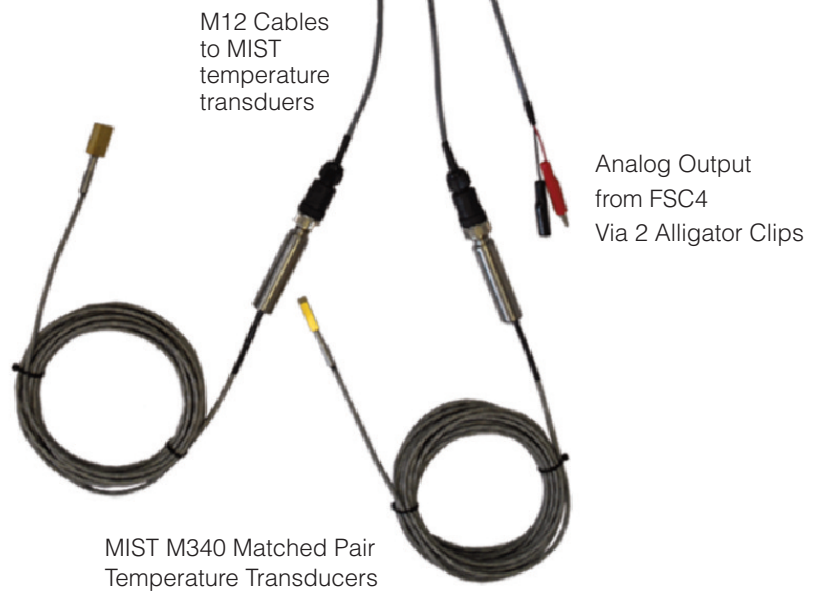
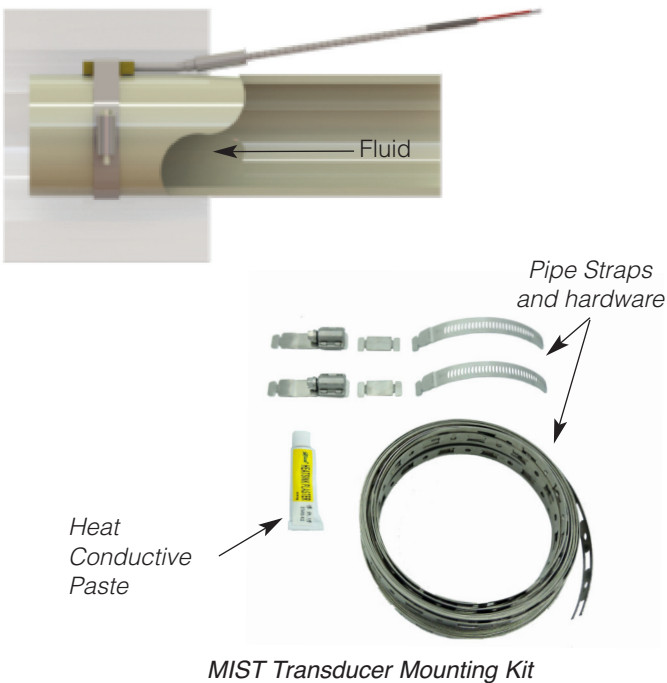


## Setup Diagram



\*Items not included, for illustration purposes only

### Installation Example



# BTU Metering Kit FSC4-BTU-KIT

## Technical Specifications

### FSC4 BTU Metering Kit

#### Transducer: M340

##### Electrical Properties

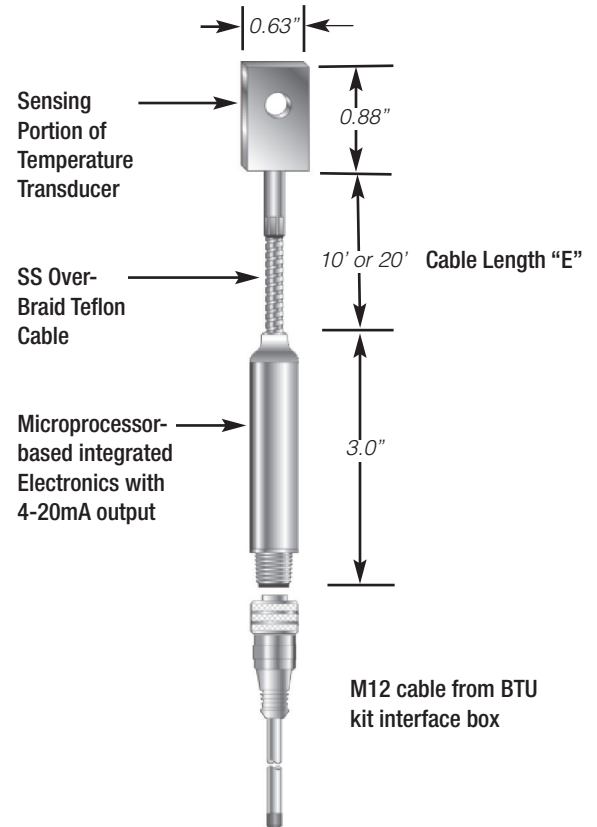
Sensor Temperature Ranges :	0°C to 50°C, or 0°C to 150°C standard ranges
Output :	4-20 mA loop powered, linear to temperature
Input Power Supply :	9-30 VDC, polarity protected
Supply Effect :	0.001 %/V
Accuracy :	Factory calibrated as a pair Delta T error ≤ 0.08 °C on total range
Maximum Loop Resistance :	[(Vsupply - 7) * 40] ohms
Sensor Open Circuit :	Upscale 24 mA
Warmup :	30 seconds
RFI Effect :	1 % or less typical
Isolation :	500 VDC 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 overbraided 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 :	Type 4X IP66
Cable Glands :	Nylon
Batteries :	2 X 9 Volts Alkaline or 16.8 NIMH battery pack with A/C charger
Cable Connectors :	6 Position plug for Portaflow FSC4 Series Flow Alligator clamps (Portaflow FSC4 A/O) Transducer: 2 X Micro M12 female



## Custom Builder

MODEL                    1                    2                    3

**FSC4-BTU-KIT** -  -  -

BOX1 CODE	Calibrated Temperature Range
05	0°C to 50°C (32/122°F)
15	0°C to 150°C (32/302°F)

Other temperature ranges available. Consult factory.

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

Other cable lengths available. Consult factory.

BOX3 CODE	Kit Version
A	Alkaline Battery
R	A/C power with rechargeable Battery