

E3CL\E3RO Clip-on Ultrasonic Thermal Energy / BTU Flow Meter

RS
485

RS485



OCT Pulse&Relay



4~20mA



Product Overview



E3CL/E3RO Clip-on Ultrasonic Thermal Energy / BTU Flow Meter adopts ultrasonic time difference method measurement principle, combined with an ultrasonic flow algorithm technology, to achieve accurate measurement of fluid flow and heat (cold) volume in the pipeline. The product is designed with integrated external clamp structure, easy and convenient to install, after four steps of operation can be powered on to measure, the installation process does not need to contact the fluid medium, no need to stop work and production.

Product Features and Functions

Product Feature:

- Easy installation, no pipe rework or damage
- No adjustment, clip on to measure
- LCD colorful display screen
- 360° rotation adjustable display screen

Product Function:

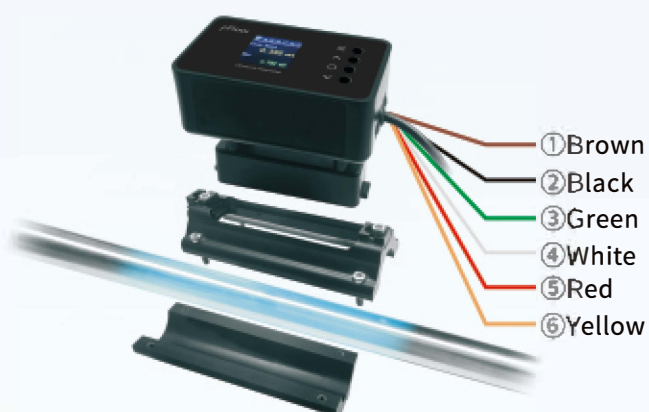
- Heat Consumption Measurement
- E3CL supports 4~20mA current output
- E3RO supports OCT&Relay output
- RS485 Communication

Application and Industry

HVAC, heating, energy-saving monitoring, heat balance regulation, heating regulation, AHU room, thermal energy transformation...



Meter Wiring



Function	Identification	Color
Power Supply (10~36VDC) + Brown	+	Brown
	-	Black
RS485	A	Green
	B	White
Optional (4~20mA / OCT&Relay)	+	Red
	-	Yellow

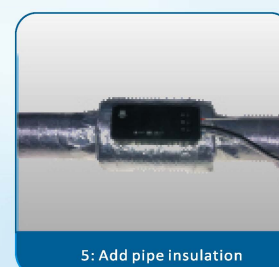
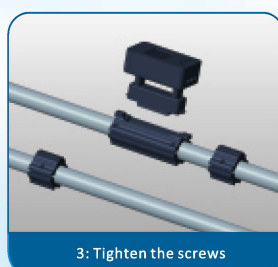
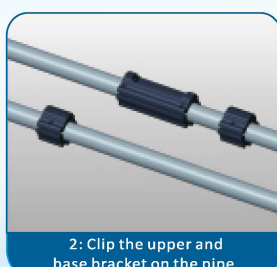
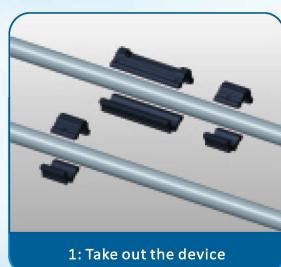
E3 Series Comparison Table:

Model Type	Output Configurations
E3CL	RS485+4~20mA
E3RO	RS485+OCT
E3RO	RS485+Relay
E3RO	OCT+Relay

Note: According to customer's requirements, there are three kinds of outputs options: RS485+OCT, RS485+Relay and OCT+Relay.

Installation Method:

The product is an integrated clip on structure design, simple and convenient installation, after four steps of operation can be powered on to measure. The installation process does not require contact with the fluid medium, no need to stop work and production.



Product Model

Model Selection Model: E3CL/E3RO; Format: A-B-C

Model	Description of Transmitter	
E3CL/E3RO	Product Name: E3CL/E3RO Clip-on	Keyboard: 4 touch keys
	Ultrasonic Thermal Energy / BTU Flow Meter	Protection Rate: IP54
	Flow Range: 0.03~5m/s	Transmitter: All-In-One
	Accuracy: $\pm 2\%$	Transducer: Clamp on
	Measurement medium: Water	Transmitter Installation Temperature: -10°C~50°C
	Display: 1.44" LCD colorful screen, resolution 128*128	Transducer Measurement Medium: 0°C~60°C
Pipe Material: Carbon Steel, Stainless Steel, Copper, PVC		
Specifications		
A	Output Selection	
1	E3CL, RS485+4~20mA	
2	E3RO, RS485+OCT Pulse	
3	E3RO, RS485+Relay	
4	E3RO, OCT Pulse+Relay	
B	Pipe Range	
Pipe OD Range	Unit: mm, Pipe Material(PVC, Carbon Steel, Stainless Steel)	
	DN20(21~29), DN25(28~36), DN32(35~43), DN40(46~54), DN50(59~67), DN65(72~80), DN80(83~91)	
	Unit: mm, Pipe Material(Copper)	
	DN25(21~29), DN32(28~36), DN40(35~43), DN50(46~54), DN65(59~67), DN80(72~80)	
C	Pipe Material(Optional)	
1	Carbon Steel	
2	Stainless Steel	
3	Copper	
4	PVC	

Selection Example: Model: E3RO; Specification: 2-DN20-2

For example: (Model: E3RO Clip-on Ultrasonic Thermal Energy / BTU Flow Meter;
E3RO, RS485+OCT Pulse, DN20, Stainless Steel)

Product Series

Accuracy Rate 0.5

D118i Insertion
P118i(HD) Portable
D118 Insertion/Clamp on
D348D Plus multipath

Accuracy Rate 1.0

D116 Insertion/Clamp on
P116 Clamp on

For HVAC

F5 wall mounted meter
F8 wall mounted meter
E5 wall mounted Clip-on Ultrasonic
Thermal Energy / BTU Flow Meter
E8 wall mounted Clip-on Ultrasonic
Thermal Energy / BTU Flow Meter

Clip-on Series

F2 Clip-on flow meter
E3E Clip-on Thermal Energy / BTU Flow Meter
E3R Clip-on Thermal Energy / BTU Flow Meter
E3W Clip-on Thermal Energy / BTU Flow Meter
E3CL/E3RO Clip-on Thermal Energy / BTU Flow
Meter

DISTRAME

Parc du Grand Troyes - 40 rue de Vienne - 10300 SAINTE-SAVINE
Tél. : 03 25 71 25 83 - infos@distrame.fr - www.distrame.fr