

Ultrasonic flow meter selection guide

1. Selection of flow meter:

There are 4 models of Ultrasonic flow meters available in our product range

1.1 Portable flow meter

 [link to the website page](#)

ECEFast Part # : DT-TUF2000H (\$830)

Description : Portable flow meter only c/w rubber boot

Choose the suitable sensors from section 2.1, 2.2



Portable flow meters also come as a kit. Two kit models available

ECEFast Part # : DT-TUF2000H-S-KT (\$1200)

Description : Portable flow meter Kit 25~100mm, -30°C to 90°C

ECEFast Part # : DT-TUF2000H-M-KT (\$1200)

Description : Portable flow meter Kit 50~700mm, -30°C to 90°C




Please note: The sensors in the kit doesn't come with the bracket. You can order them separately

ii) DIN rail mounted flow meter

ECEFast Part # : DT-TUF-2000M (\$480)

Description : Ultrasonic DIN rail mount TTFM

 [link to the website page](#)


Choose the suitable sensors from section 2.3



iii) Wall mounted flow meter

ECEFast Part # : DT-TUF-2000B-HV (\$590)

Description : Wall Mount Flow meter. IP67 Enclosure,
Mains Power Plug - 85VAC-260VAC

 [link to the website page](#)

Choose the suitable sensors from section 2.3



ECEFast Part # : DT-TUF-2000B-LV (\$580)


Description : Wall Mount Flow Meter. IP67 Enclosure,
DC Low Voltage 8-36v Power Supply

Choose the suitable sensors from section 2.3

iv) Surface mounted flow meter

ECEFast Part # : DT-TUF-2000F2 (\$580)

Description : TTFM bracket mounted IP68 transmitter


 [link to the website page](#)

Choose the suitable sensors from section 2.3



2. Selection of flow meter sensors:

2.1 Sensor + brackets

 [link to the website page](#)

Use the respective bracket models according to the pipe size/sensor model

1. HSS : For smallest range - DN15-DN100 T bracket
2. HS : For small range - DN25-DN100 dimension 318 x 59 x 145
3. HM : For medium range - DN50-DN300 dimension 568 x 59 x 145
4. EB-1 : Extended - DN300-DN700 dimension 88 x 59 x 49

ECEFast part #: DT-TUF2000H-HSS (\$ 400)

T bracket with sensor for portable flow meter DN15~DN100



ECEFast part #: DT-TUF2000H-HS (\$ 250)

Sensor set with bracket for portable flow meter DN25 ~ DN100



ECEFast part #: DT-TUF2000H-HM (\$ 360)

Sensor set with bracket for portable flow meter DN50 ~ DN300



ECEFast part #: DT-TUF2000H-EB1 (\$ 70 each)

Bracket for TM1 Sensor (Need 2 x brackets) for portable flow meter DN50 ~ DN700

P.S Sensors are not included with EB1 brackets



2.2 Portable flow meter sensor models [link to the website](#)

ECEFast stock two sensor models:

1. ECEFast Part # : DT-TUF2000H-S (\$160)
Description : Sensor set for portable flow meter
DN25 ~ DN100 -30°C to 90°C
Supplier part # : TS-2 WITH PLUG TERMINAL
2. ECEFast Part # : DT-TUF2000H-M (\$160)
Description : Sensor set for portable flow meter
DN50 ~ DN700 -30°C to 90°C
Supplier part # : TM-1 WITH PLUG TERMINAL



2.3 Fixed flow meter sensor models

ECEFast stock three sensor models:

1. ECEFast Part # : DT-TUF-DN15-100 (\$180)
Description : DN15 ~ DN100 screw terminal
Supplier part # : S1 FOR TDS100
2. ECEFast Part # : DT-TUF-DN25-100 (\$160)
Description : DN25 ~ DN100 screw Terminal
Supplier part # : TS-2 WITH SCREW TERMINALS
3. ECEFast Part # : DT-TUF-DN50-700 (\$210)
Description : Fixed flow meter sensor DN50 ~ DN700 screw terminal
Supplier part # : TM-1 WITH SCREW TERMINALS



4. ECEFast Part # : DT-TUF-TC-1 (\$300)
 Description : Standard insertion transducers TC-1 (pair)
 Pipe wall thickness $\leq 20\text{mm}$
 Measuring range: DN50mm~DN6000mm
 Fluid temperature: -30~160°C



5. ECEFast Part # : DT-TUF-TC-2 (\$350)
 Description : Long insertion transducers TC-2 (pair)
 Pipe wall thickness $\leq 70\text{mm}$
 Measuring range: DN50mm~DN6000mm
 Fluid temperature: -30~160°C



3. Accessories



[link to the website page](#)

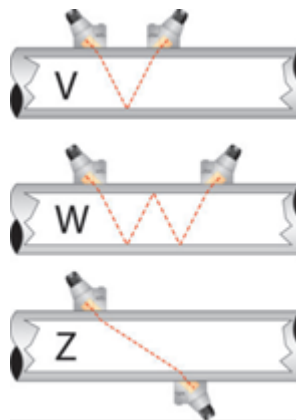
1. ECEFast Part # : DT-TUF-CBL/METRE (\$30)
 Description : 10M Cable for fixed flow meter sensors
 Supplier part # : Cable for Fixed flow meter sensor
2. ECEFast Part # : DT-TUF2000H-5MCB (\$69)
 Description : 5m Cable set for portable flow meter sensor
 Supplier part # : PLUG SIGNAL CBL 2X5M
3. ECEFast Part # : DT-TUF2000H-CA-M (\$200)
 Description : Carry Case to suit portable flow meter Kit DN50 to DN300
 Supplier part # : CARRY CASE 81*32*17CM
4. ECEFast Part # : DT-TUF2000H-CA-S (\$240)
 Description : Carry Case to suit portable flow meter Kit DN15 to DN100
 Supplier part # : CARRY CASE 48*32*21CM
5. ECEFast Part # : DT-TUF-COMP-30ML (\$18)
 Description : Transfer Compound 30ml (Gel)
 Supplier part # : DOW CORNING MOLYKOTE 111

4.1 Installation methods

V-method: This method is the most widely used method for daily measurement with pipe inner diameters ranging from DN20 to DN300. It is also called reflective method.

W method: This method is usually used on plastic pipes with a diameter from DN10~DN100. This method can be effective on smaller pipes that have internal deposits.

Z-method: This method is commonly used when the pipe diameter between DN300 to DN500. This method is the most direct for signal transfer and can therefore provide better results than V method on many applications.



4.2 Installation points

Horizontally lined pipes could have gas bubbles inside the upper part of the pipe. Therefore it is recommended to install the transducers horizontally by the side of the pipe

