

1. Selection of flow meter:

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

i) Portable flow meter

ECEFast Part # : **DT-TUF2000H** (\$920)

Description : Portable flow meter only c/w rubber boot

Supplier part # : TUF-2000H WITH RUBER 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** (\$1280)

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

Supplier part # : TUF2000H S KT W/O BKT

ECEFast Part # : **DT-TUF2000H-M-KT** (\$1280)

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

Supplier part # : TUF2000H M KIT W/O BRKT



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

ii) DIN rail mounted flow meter

ECEFast Part # : **DT-TUF-2000M** (\$520)

Description : DIN rail mount TTFM, 24VDC power
w/ 4-20mA O/P

Supplier part # : TUF-2000M

Choose the suitable sensors from section 2.3



iii) Wall mounted flow meter

ECEFast Part # : **DT-TUF-2000B-HV** (\$680)

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

Supplier part # : TUF-2000B-HV (High Voltage)

ECEFast Part # : **DT-TUF-2000B-LV** (\$680)

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

Supplier part # : TUF-2000B-LV (low Voltage)



ECEFast Part # : **DT-TUF-2000B-HV-SD** (\$780)

Description : Wall Mount Flow Meter. IP67 Enclosure,
Mains Power 85VAC-260VAC, SD card data logging

Supplier part # : TUF-2000B-HV-SD (low Voltage)

Choose the suitable sensors from section 2.3

iv) Surface mounted flow meter

ECEFast Part # : **DT-TUF-2000F2** (\$680)

Description : TTFM bracket mounted IP68 transmitter

Supplier part # : TUF-2000F2

Choose the suitable sensors from section 2.3



2. Selection of flow meter sensors and brackets:

2.1 Portable sensor brackets

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 range - DN300-DN700 dimension 88 x 59 x 49

ECEFast part #: DT-TUF2000H-HSS (\$ 490)

Supplier part #: **HS SENSOR/T BKT** for DN15~100
Sensor set with T bracket for portable flow meter



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

Supplier part #: **HS** for DN25~100
Sensor set with bracket for portable flow meter



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

Supplier part #: **HM** for DN 50~DN300
Sensor set with bracket for portable flow meter



ECEFast part #: DT-TUF2000H-EB1 (\$ 120)

Supplier part #: **EB-1** for DN 300~DN700
Bracket to extend the range from DN300 to DN700.
Use it together with DT-TUF2000H-HM



Use 1 x **HM** for DN 50~DN300 & 1 x **EB1** for DN 300~DN700

2.2 Portable flowmeter sensor models

ECEFast stock two sensor models:

1. ECEFast Part # : **DT-TUF2000H-S** (\$180)
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** (\$180)
Description : Sensor set for portable flow meter
DN50 ~ DN700 -30°C to 90°C
Supplier part # : TM-1 WITH PLUG TERMINAL



2.3 Fixed flowmeter sensor models

ECEFast stock three sensor models:

1. ECEFast Part # : **DT-TUF-DN15-100** (\$200)
Description : DN15 ~ DN100 screw terminal
Supplier part # : S1 FOR TDS100
2. ECEFast Part # : **DT-TUF-DN25-100** (\$200)
Description : DN25 ~ DN100 screw Terminal
Supplier part # : TS-2 WITH SCREW TERMINALS
3. ECEFast Part # : **DT-TUF-DN50-700** (\$220)
Description : Fixed flow meter sensor DN50 ~ DN700 screw terminal
Supplier part # : TM-1 WITH SCREW TERMINALS
4. ECEFast Part # : **DT-TUF-TC-1** (\$350)
Description : Standard insertion transducers TC-1 (pair)
Pipe wall thickness $\leq 20\text{mm}$
DN50mm~DN6000mm, -30~160°C
Supplier part # : TC-1
5. ECEFast Part # : **DT-TUF-TC-2** (\$400)
Description : Long insertion transducers TC-2 (pair)
Pipe wall thickness $\leq 70\text{mm}$
DN50mm~DN6000mm, -30~160°C
Supplier part # : TC-2



3. Accessories

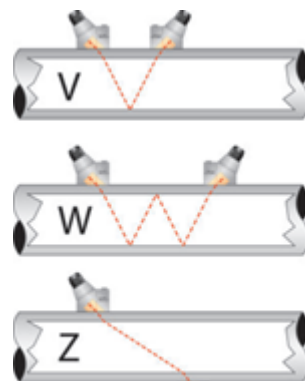
1. ECEFast Part # : **DT-TUF-CBL/METRE** (\$60)
Description : 10M Cable for fixed flow meter sensors
Supplier part # : Cable for Fixed flow meter sensor
2. ECEFast Part # : **DT-TUF2000H-5MCB** (\$80)
Description : 5m Cable set for portable flow meter sensor
Supplier part # : PLUG SIGNAL CBL 2X5M
3. ECEFast Part # : **DT-TUF2000H-CA-M** (\$240)
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** (\$260)
Description : Carry Case to suit portable flow meter Kit DN15 to DN100
Supplier part # : CARRY CASE 48*32*21CM
5. ECEFast Part # : **DT-TDS-COMPOUND** (\$120)
Description : Ultrasonic signal Transfer Compound

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

