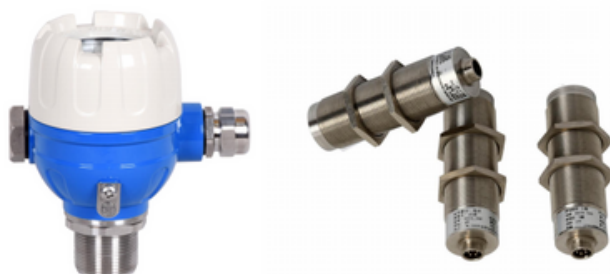


ISEN-T/CT High-precision small blind area ultrasonic level meter



Features:

- ★ The blind area is less than 3cm, which is the first in China (won the National Innovation Fund, high-tech products, etc.)
- ★ The built-in anti condensation function has won the national invention patent
- ★ Built in NB iot and LoRa wireless communication
- ★ The transducer has built-in temperature sensor for real-time automatic compensation
- ★ Voltage 3.7~32VDC
- ★ Level, liquid level, volume, weight, etc. can be measured
- ★ Digital filtering and echo recognition
- ★ Support user-defined sound velocity (measurement of special substances)
- ★ Robust and stable sensing for harsh environments

General Specification: (optional)

Range : 1m、2m、3m

Blind area: <0.03~0.15m (different for range)

Emission angle : <3~6° (different for sensor and environment)

Resolution : 1mm

Precision : <±1mm、<±1.5mm (different for range)

Temperature : Automatic temperature compensation

Display : OLED

Output (optional)

Analog Output: 4~20mA、0~20mA、0~5V、0~10V

Digital output: RS485/Modbus、Hart (two-wire)

Switch output: 3 NPNs

Wireless communication: NB-iot、LoRa、4G

Power (optional)

External supply: 12~28VDC、18~32VDC (two-wire)

Physical characteristics (optional)

Installation : M30×1.5、chuck

Electrical interface: M20X1.5-2

Material : cast aluminium、304、PBT

Environmental (optional)

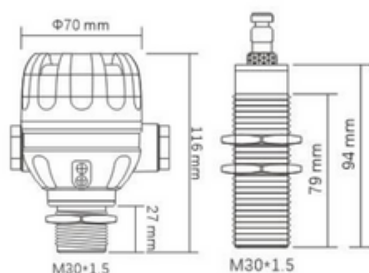
Work environment: -20~65°C、-0.07~0.1MPa

Storage humidity: $\leq 80\%RH$, no condensation

Protection degree: IP65 (optional)

Explosion proof grade: ExiaII BT4Ga

Dimension (mm)



ISEN-A/R Strengthen Ultrasonic level meter



Features:

- ★ Built in battery power supply
- ★ Built in solar charging
- ★ Voltage 3.7~32VDC
- ★ The built-in anti condensation function has won the national invention patent
- ★ Working temperature: 110 °C
- ★ Fixed interference filtering function can be manually set
- ★ Level, liquid level, volume, weight, etc. can be measured
- ★ With digital filtering and echo recognition functions
- ★ Support user-defined sound velocity (measurement of special substances)

General Specification (optional) :

Range : 3m、5m、8m、10m...40m

Blind area: <0.25~2m (different for range)

Emission angle : <6~15° (different for sensor and environment)

Resolution : 1mm

Precision : $\pm 0.2\%F.S$ (high precision optional)

Temperature : Automatic temperature compensation

Display : OLED

Output (optional)

Analog Output: 4~20mA(Active/Passive)、0~20mA、0~5V、0~10V

Digital output: RS485/Modbus、Hart (two-wire)

Switch output: 3 NPNs/2 relays

Wireless communication: NB-iot、LoRa、4G、RF、blue teeth、WiFi...

Power (optional)

External supply: 12~28VDC、18~32VDC (two-wire)

Physical characteristics (optional)

Installation : G1½ (3m)、G2/2NPT (3~15m)、G3½ (15~40m)

Electrical interface: M20X1.5-2

Material : PBT、ABS、PVDF、PTFE、304

Environmental (optional)

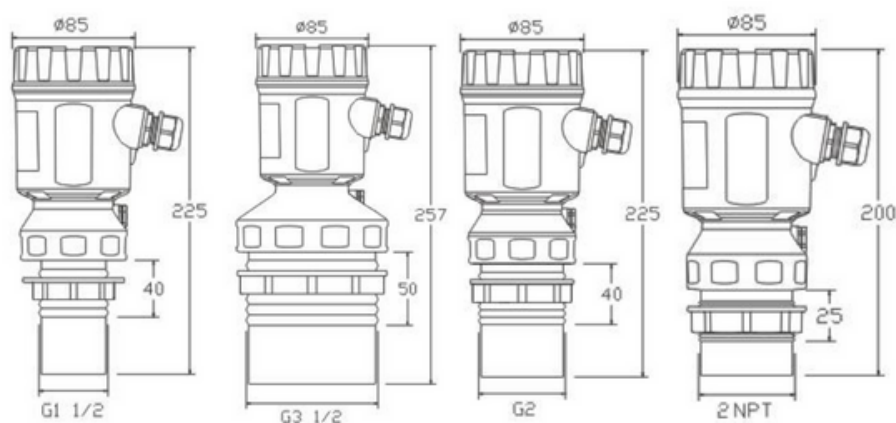
Work environment: -20~65℃、-30~100℃、-0.07~0.1MPa

Storage humidity: ≤80%RH, no condensation

Protection degree: IP65 (optional)

Explosion proof grade: ExiaII BT4Ga

Dimension (mm)



ISEN-AG/RG Ultrasonic level meter(cast aluminium)



Features:

- ★ Built in ultrasonic distance measurement and pressure distance measurement
- ★ Built in NB iot wireless communication
- ★ Built in battery power supply
- ★ Voltage 3.7~32VDC
- ★ The built-in anti condensation function has won the national invention patent
- ★ Working temperature: 110 °C
- ★ Level, liquid level, volume, weight, etc. can be measured
- ★ With digital filtering and echo recognition functions
- ★ Support user-defined sound velocity (measurement of special substances)

General Specification (optional) :

Range : 3m、5m、8m、10m...40m

Blind area: <0.25~2m (different for range)

Emission angle : <6~15° (different for sensor and environment)

Resolution : 1mm

Precision : ±0.2%F.S (high precision optional)

Temperature : Automatic temperature compensation

Display : LCD/OLED

Output (optional)

Analog Output: 4~20mA(Active/Passive)、0~20mA、0~5V、0~10V

Digital output: RS485/Modbus、Hart (two-wire)

Switch output: 3 NPNs

Wireless communication: NB-iot、LoRa、4G、RF、blue teeth、WiFi...

Power (optional)

External supply: 12~28VDC、18~32VDC (two-wire)

Physical characteristics (optional)

Instillation : G1½ (3m)、G2/2NPT/M60×2 (3~15m)、G3½ (15~40m)

Electrical interface: M20X1.5-2

Material : PBT、ABS、PP、PVDF、PTFE、304、 cast aluminium

Environmental (optional)

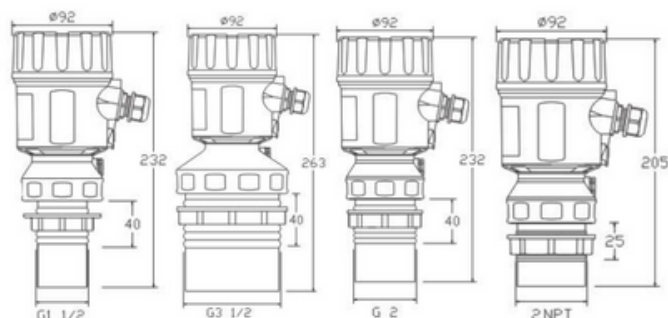
Work environment: -20~65℃、-30~100℃、-0.07~0.1MPa

Storage humidity: ≤80%RH, no condensation

Protection degree: IP65 (optional)

Explosion proof grade: ExiaII BT4Ga

Dimension (mm)



ISEN-A/R Ultrasonic level meter(regular)



Features:

- ★ Voltage 5~32VDC
- ★ Support two, three and four wire
- ★ Isolated 4~20mA output
- ★ With digital filtering and echo recognition functions
- ★ Fixed interference filtering function can be manually set
- ★ Level, liquid level, volume, weight, etc. can be measured
- ★ Support user-defined sound velocity (measurement of special substances)

General Specification (optional) :

Range : 3m、5m、8m、10m、12m、15m

Blind area: <0.25~0.6m (different for range)

Emission angle : <6~10° (different for sensor and environment)

Resolution : 1mm

Precision : $\pm 0.3\%$ F.S

Display : OLED

Output (optional)

Analog Output: 4~20mA、0~20mA、0~5V、0~10V

Digital output: RS485/Modbus、Hart (two-wire)

Switch output: 3 NPNs,/2 relays (AC:5A 250V DC:10A 24V)

Wireless communication: NB-iot、LoRa、4G、RF、blue teeth、WiFi...

Power (optional)

External supply: 12~28VDC、18~32VDC (two-wire)

Power consumption:<1.5W,<0.8W (two-wire)

Physical characteristics (optional)

Installation : M60×2

Electrical interface: M20X1.5-2

Material : ABS、PP、304

Environmental (optional)

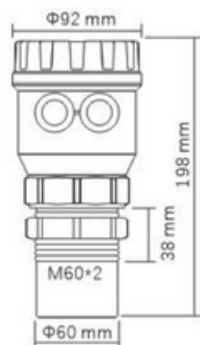
Work environment: -20~65℃、-0.07~0.1MPa

Storage humidity: ≤80%RH, no condensation

Protection degree: IP65 (optional)

Explosion proof grade: ExiaII BT4Ga

Dimension (mm)



ISEN-CA/CR Ultrasonic level sensor (2/3wire)



Features:

- ★ Strong anti-interference and on-line output regulation
- ★ Built-in temperature sensor, real-time automatic compensation
- ★ The built-in anti-condensation function has won the national invention patent.
- ★ Parameters can be set via RS485.
- ★ Shielding probe interference signals
- ★ 4~20mA current output, optional field bus interface

General Specification (optional) :

Range : 3m、5m、8m、10m、12m、15m...40m

Blind area: <0.25~2m (different for range)

Emission angle : <6~15° (different for sensor and environment)

Resolution : 1mm

Precision : ±0.2%F.S

Temperature : Automatic temperature compensation

Output (optional)

Analog Output: 4~20mA、0~20mA、0~5V、0~10V

Digital output: RS485/Modbus、Hart (two-wire)

Switch output: NPN

Power (optional)

External supply: 12~28VDC、18~32VDC (two-wire)

Power consumption: <1.5W, <0.8W (two-wire)

Physical characteristics (optional)

Installation : M30X1.5、G1½、G2 (2NPT) 、G3½、M60X2

Material : PBT、ABS、PP、PVDF、PTFE、304

Cable: 1.5m

Environmental (optional)

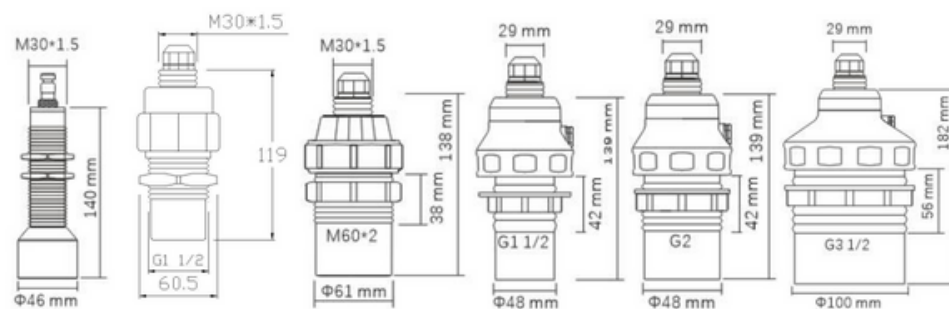
Work environment: -20~65℃、-30~100℃、-0.07~0.1MPa

Storage humidity: ≤80%RH, no condensation

Protection degree: IP65 (optional)

Explosion proof grade: ExiaII BT4Ga

Dimension (mm)



ISEN-F/FG Split ultrasonic level meter



Features:

- ★ Built in 4G, LoRa, NB iot, RF, Bluetooth, Wifi, LAN (acquisition system can be customized)
- ★ Level, liquid level, volume, weight, etc. can be measured
- ★ With digital filtering and echo recognition functions
- ★ Fixed interference filtering function can be manually set
- ★ The built-in anti condensation function has won the national invention patent
- ★ Support user-defined sound speed
- ★ Support MiniSD card data acquisition
- ★ Support USB output
- ★ Support micro printer

General Specification (optional) :

Range : 1m、2m、3m、5m、8m、10m、12m、15m...40m

Blind area: <0.06~2m (different for range)

Emission angle : <3~15° (different for sensor and environment)

Resolution : 1mm

Precision : $\pm 0.2\%F.S$

Temperature : Automatic temperature compensation

Display : LCD

Output (optional)

Analog Output: two 4~20mA、0~20mA、0~5V、0~10V

Digital output: RS485、Hart、USB、MiniSD

Switch output: 4 relays (AC:5A 250V DC:10A 24V)

Wireless communication: 4G、LoRa、NB-iot、RF、Wifi、LAN、bluetooth

Power

Supply : 220VAC/12-24VDC

Physical characteristics (optional)

Sensor instillation : G1½、G2 (2NPT) 、G3½、M60×2

Material : PBT、ABS、cast aluminium、PVDF、PP、PTFE、304

Cable:10m (optional)

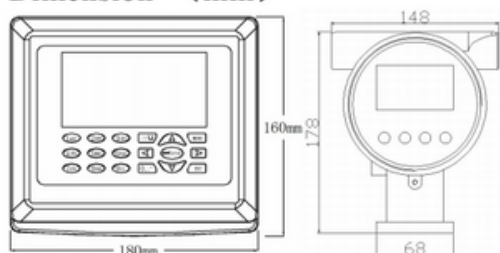
Environmental (optional)

Work environment: -20~65℃、-0.07~0.1MPa

Storage humidity: $\leq 80\%RH$, no condensation

Protection degree: IP65 (optional)
Explosion proof grade: ExiaII BT4Ga

Dimension (mm)



ISEN-AS Handheld ultrasonic level meter



Features:

- ★ Automatic temperature compensation
- ★ Level, liquid level, volume, weight, etc. can be measured
- ★ With digital filtering and echo recognition functions
- ★ The built-in anti condensation function has won the national invention patent
- ★ Support user-defined sound speed
- ★ Support bluetooth,GPRS,GPS
- ★ Support MiniSD card

General Specification (optional) :

Range : 1m、2m、3m、5m、8m、10m、12m、15m...30m

Blind area: <0.06~1.5m (different for range)

Emission angle : <3~15° (different for sensor and environment)

Resolution : 1mm

Precision : $\pm 1\text{mm} \sim 0.2\% \text{F.S}$

Temperature : Automatic temperature compensation

Display : LCD

Output (optional)

Output: USB-UART(Standard)

32G card

GPS

Wireless communication: 4G、LoRa、NB-iot、RF、Wifi、LAN、bluetooth

Power

External power : 5VDC/1A

Power consumption: work<0.3W/Standby<0.03W

Physical characteristics (optional)

Sensor instillation : G1½、G2 (2NPT) 、G3½、M60×2

Material : ABS、PVDF、PTFE、PP

Cable:2m (optional)

Environmental (optional)

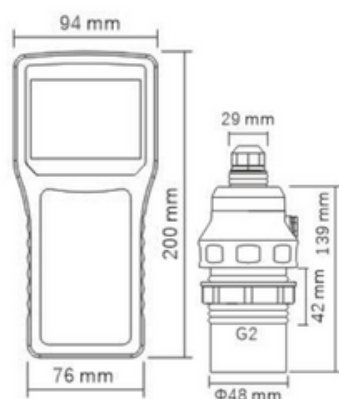
Work environment: -20~65℃、-0.07~0.1MPa

Storage humidity: ≤80%RH, no condensation

Protection degree: IP65 (optional)

Explosion proof grade: ExiaII BT4Ga

Dimension (mm)



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