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ONE-STOP MONITORING SOLUTION

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Hunan Mac Sensor Co., Ltd.

MACSENSOR PROFILE

30+

30+ Years Of Experience

1

1 Stop Solution Provider

10W+

100,000+ Users

102

102 Countries



CUSTOMERS' APPLICATIONS

- Water Treatment
- Weather Station
- Water Quality Monitoring
- Greenhouse Monitoring
- Drinking Water Pressure Monitoring
- Underground Water Monitoring



WATER TREATMENT



L703 Pressure level transmitter

Measuring range: 0-1...100m mH₂O
 Accuracy: $\leq \pm 0.5\% \text{F.S.}$, $\leq \pm 0.25\% \text{F.S.}$
 Output: 4~20mA/1~5V/0~5V/0~10V/0.5~4.5V/SDI-12/RS485 Modbus RTU
 Power Supply: 12~36VDC/10~36Vdc/15~36Vdc/5Vdc/10~30 Vdc
 Long Stability: 0.2%F.S $\pm$ 0.05%



P20H Industrial pressure transmitter

Pressure Range: -1 Bar-1 Bar; 0-0.1Bar.....1000 Bar/0-2 Psi...15000 Psi
 Output: 4~20mA, 4~20mA+HART, 0~5V, 1~5V, 0-10V, RS485
 Accuracy: $\leq \pm 0.5\% \text{F.S.}$; $\leq \pm 0.25\% \text{F.S.}$
 Long Stability: 0.1%F.S $\pm$ 0.05%



UL20 Integrated ultrasonic level meter

Measuring range: 5m, 10m, 15m, 20m, 30m, 40m, 50m, 60m
 Accuracy: 0.25%-0.5%
 Analog Output: 4~20mA/510 Ω load; 4~20mA/250 Ω load
 Relay Output: Two groups: AC 250V/ 8A or DC 30V/ 5A
 Power supply: 24VDC(Standard)/220V AC+15% 50Hz(Optional)



MZW2603 Smart wireless level sensor

Measuring Range: 0-1m...100m
 Accuracy: 0.5% F.S
 Network Format: NB-IoT/GPRS/3G/4G/LoRa/LoRaWAN...
 Power Supply: DC 3.6V, 19Ah Li-Battery
 Operating Temp.: -30°C~70°C (the medium does not crystallize)



MQ8 FMCW Radar level sensor

Measuring Range: 0.3 to 80m
 Accuracy: 3~5mm
 Output: 4~20mA/HART/RS485/Modbus
 Power Supply: 18~28VDC
 Frequency: 76-81GHz



LD300 Integrated electromagnetic flow meter

Pipe Size: DN6-3000mm
 Accuracy: 0.5%
 Maximum Flow Speed: 0.5~10m/s
 Output: 4~20mA, 0~10mA, pulse, alarm, frequency, RS485/RS232
 Power Supply: 85VAC~250VAC, 20VDC~36VDC, 3.6V battery



UF2000 Ultrasonic clamp on flow meter

Pipe size: DN32-1000
 Measure accuracy: $\pm 1\%$
 Output optional: 4~20mA; OCT; RS232/RS485; Pulse
 Power supply: DC8~36V or AC85~264V
 Power Consumption: 1.5W

METEOROLOGY



Full Stainless Steel Rain Gauge R66S

Measuring Range: 0.2mm/0.5mm
Resolution: 0.2mm standard, 0.5mm optional
Accuracy: $\leq 2\%$
Output: RS485, pulse
Power supply: 10~30V DC



ABS Tipping Bucket Rain Gauge R65P

Measuring Range: 0.2mm/0.5mm
Resolution: 0.2mm
Accuracy: $\leq 2\%$
Output: RS485, pulse
Power supply: 10~30V DC



Wind speed sensor W70S

Measuring Range: 0-60m/s
Resolution: 0.1m/s
Accuracy: ± 0.3 m/s
Output: 4~20mA, 0~5V, 0~10V
Power supply: 10~30V DC



Wind direction sensor W70D

Measuring Range: 8 directions
Response time: ≤ 0.5 s
Output: 4~20mA, 0~5V, 0~10V
Power supply: 10~30V DC



Rain and Snow Sensor RS

Normal Working Power: 0.4W
Working Power under heating: 2.4W
Output: 4~20mA, 0~5V, 0~10V, RS485
Power supply: 10~30V DC



8 in 1 Ultrasonic Weather Sensor MWS08

Measuring Range
Wind Speed: 0.5~40m/s
Wind Direction: 0~359°
Humidity: 0%~99%RH
Temperature: -40°C~80°C
Air: 0-120Kpa
Noise: 30dB~120dB
PM10/PM2.5: 0-1000ug/m3
Light Intensity: 0~200000Lux



Solar radiation sensor MCSR02

Measuring Range: 0-1800W/m²
Resolution: 1W/m²
Output: 4~20mA, 0~5V, 0~10V, RS485
Power supply: 7~30VDC

AGRICULTURE



MTD50 Soil moisture & EC sensor

Measuring Range: EC 0-10000 μ s/cm; Moisture 0-100%;
IP rating: IP68
Output: 4~20mA, 0~5V, 0~10V, RS485
Power supply: 12~30VDC

MTD60 Soil moisture, temperature & EC sensor

Measuring Range: EC 0-20000 μ s/cm; Moisture 0-100%;
Temperature, -40~80°C
IP rating: IP68
Output: 4~20mA, 0~5V, 0~10V, RS485
Power supply: 3.6~30VDC



MTH40 Temperature and humidity sensor

Probe working temp./humidity: -40°C~120°C/0%RH-100%RH
Accuracy: $\pm 0.5^\circ\text{C}$ / $\pm 3\%$ RH(5%RH~95%RH, 25°C)
Output: 4~20mA, 0~5V, 0~10V
Power supply: 10~30VDC



MAS20 Ammonia sensor

Measuring Range: 90~110Kpa
Stability: $\leq 2\%$ signal value/month
Accuracy: up to $\pm 2\%$ F.S
Output: 4~20mA, 0~5V, 0~10V, RS485
Power supply: 10~30VDC



MCO2 CO2 sensor

Measuring Range: 0-5000ppm
Accuracy: $\pm (40\text{ppm} + 3\% \text{ F.S})$ (25°C)
Output: 4~20mA, 0~5V, 0~10V
Power supply: 10~30VDC



MGZ10 Light intensity sensor

Measuring Range: 0~200000 Lux
Long-term stability: $\leq 5\%$ /y
Accuracy: $\pm 7\%$
Output: 4~20mA, 0~5V, 0~10V
Power supply: 10~30VDC



MAP80 Atmospheric pressure sensor

Measuring Range: 1-120Kpa
Accuracy: $\pm 0.15\text{Kpa}$ / $\pm 0.5^\circ\text{C}$
Output: 4~20mA, 0~5V, 0~10V
Power supply: 10~30VDC

WATER TREATMENT (WATER QUALITY)



C20 Residual chlorine analyzer

Measuring Range: 0-0.5/2/5/10/50ppm or customize
Accuracy: $\pm 1\%$ of measuring range
Response Time: 1-60s
Output: 4-20mA
Input: 12-24VDC



D30 Dissolved oxygen meter

Measuring range: 0 ~ 20.00 mg/L
Accuracy: $\pm 3\%$ of the value
Resolution: 0.1 mg/L, 0.1°C
IP Rating: IP68
Input: 24VDC



T40 Turbidity detector

Measuring range: Clear water, 0-4000NTU;
Sewage turbidity, 0-1000NTU; SS sensor, 0-20000mg/L
Pressure Range: <10Bar
IP Rating: IP68
Input: 24VDC



N50 Nitrite sensor

Measuring Range: 0-20ppm, 0-100ppm, 0-300ppm
Accuracy: $\pm 0.1\%$ of measuring range
Response Time: 1-60s
Output: 0-20mA
Input: 24VDC



ORP103 ORP meter

Measuring range: $\pm 2000\text{mV}$
Withstand pressure: 0.6Mpa
Analog Output: 4-20mA
Temp. Range: 0~80°C
Compensation Temp.: -10~1100°C



PH101 PH meter

Measuring range: 0.00~14.00PH
Withstand pressure: 0.5bar
Analog Output: 4~20mA
Temp. Range: 0~80°C
Compensation Temp.: -10~1100°C



DC-9BL Multi-parameter water quality monitor

Measuring range
PH: 0~14
ORP: $\pm 1000\text{mV}$
Dissolved oxygen: 0~20 mg/L
Conductivity: 0~30000 $\mu\text{S/cm}$
Residual chlorine: 0~2~20 mg/L
Turbidity: 0~20~400 NTU
Temperature: 0~60°C
Flow: per the demand