

Mini Weather Station

DLW-1XXX



:: Weather Monitoring



Wind Speed	Temperature	Illuminance
Wind Direction	Humidity	Pressure
Sea Level	Precipitation	

:: Air Quality



CO	CO ₂	HCHO
NH ₃	O ₂	H ₂ S
PM1/2.5/10	TVOC	

Product Introduction

ICP DAS's Mini Weather Station adopts innovative hard-ware design

Compact Automated Surface Observation Area :

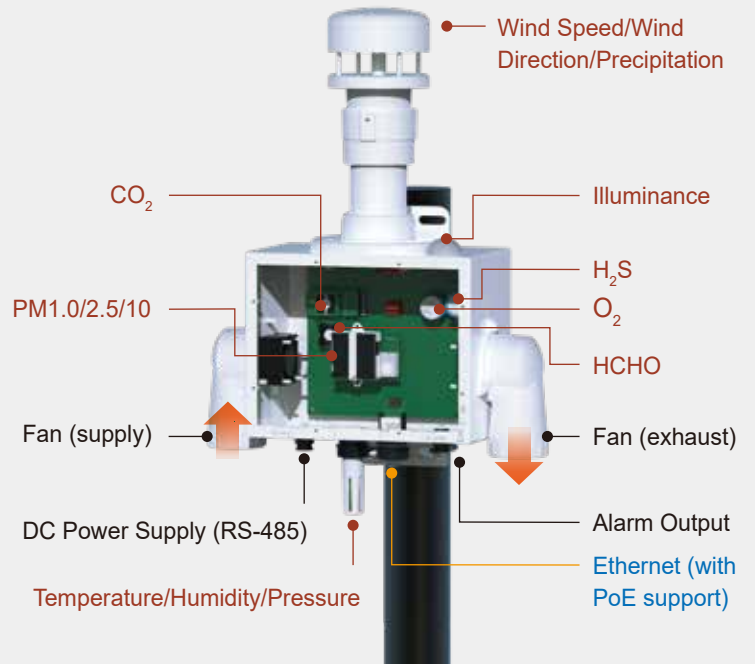
Air pollution sensors are miniaturized and placed on the PCB to help monitor and analyze the air quality index to determine the source of pollution.

Positive and Negative Pressure Ventilation System :

Active ventilation can create a difference in air pressure between inside and outside the module to mix the air evenly by creating air turbulence. This mode can improve the accuracy of the obtained values.

Ingress Protection Rating :

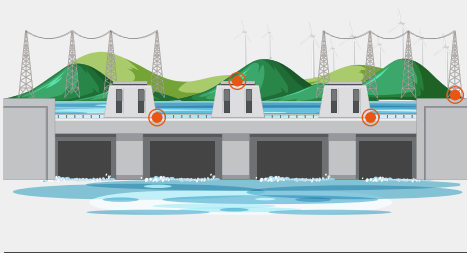
The supply and exhaust fans have IP54 rated design, which can effectively resist low-angle reverse irrigation under strong wind and rain. Waterproof, protective connectors for RS-485 and Ethernet (with PoE support) are also provided to ensure the normal operation of the device in extreme environments.



Replaceable Filter Patch

The supply and exhaust fans have replaceable filters, namely, 45 PPI filter patches, which can prevent large particles of dust and other contaminants from entering the interior of the mini station, thereby effectively extending the life of its gas sensor chips. During regular maintenance, customers only need to replace the fan filter by themselves, significantly reducing the cost and time of repairs.

Outdoor Weather Data Visualization Solution



Installation Position

Visualization Dashboard for Smart Monitoring



Mini Weather Station
DLW-1XXX Series

RS-485
Ethernet



IIoT Edge Controller
WISE-5231M-4GE



iCAM-ZMR8422X
HD IP Camera



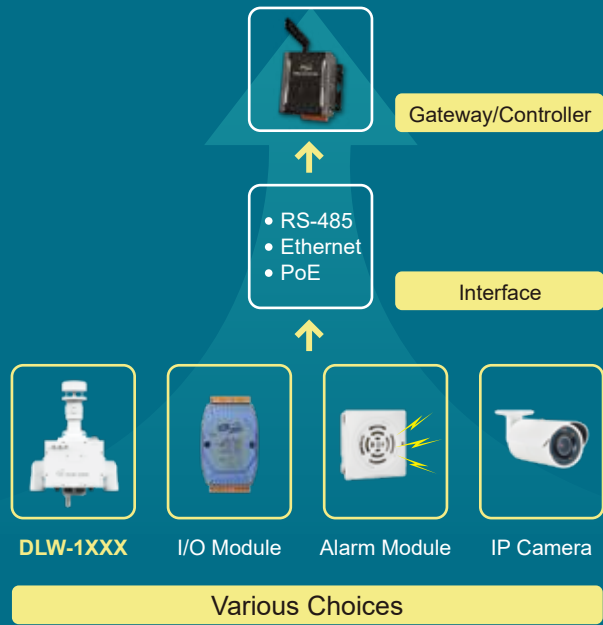
ALM-04-MRTU
MP3 Alarm Module



M-7000 Series
I/O Module

Design

your Mini Weather Station



The DLW-1XXX mini weather station is highly integrated, and supports an Ethernet interface and the most common industrial communication protocols Modbus RTU/TCP. It can also be used with a variety of environmental sensors for data collection or remote I/O modules to monitor on-site conditions and meet the needs of different applications.

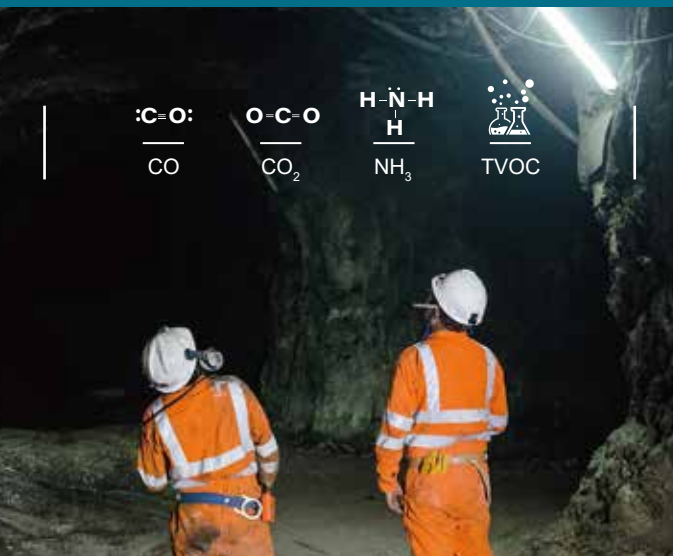
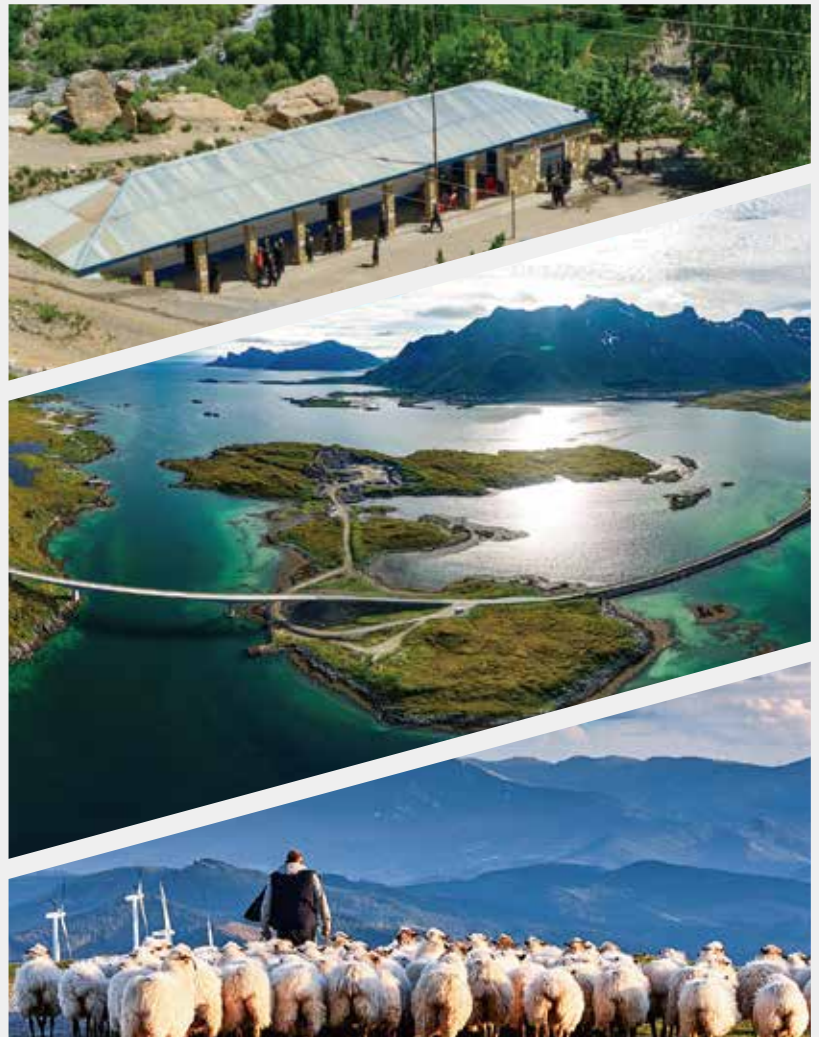
The DLW-1XXX mini weather station can be additionally equipped with a physical network bridge or WISE-5231M-4GE IIoT edge controller according to the communication needs of customers. In addition to providing simple logic control, it also supports the function of 3G/4G wireless communication. In areas with poor communication, such as outlying islands, remote areas, and meteorological observation stations, weather data can be collected using the DLW-1XXX mini weather station, allowing the control center to monitor the conditions of remote or specific areas in real-time.

DLW-1XXX Standard Specifications

- Wind Speed : 0 ~ 40 m/s
- Wind Direction : 0 ~ 359 °
- Pressure : 300 ~ 1200 hPa
- Precipitation: 0 ~ 100 mm/hr
- Sea Level : -50 ~ 9000 m
- Temperature : -40°C ~ 80 °C
- Humidity : 0 ~ 100 %
- Illuminance : 0 ~ 20,000 Lux
- PM1.0/2.5/10 : 0 ~ 500µg/m³

Gas Sensor Optional Specifications

- CO
- CO₂
- HCHO
- TVOC
- NH₃
- H₂S
- O₂



There are various poisonous chemicals in dark places without enough sunlight and with poor ventilation, such as underground mines. When working in such places, safety hazards can arise, such as an explosion of biogas, lack of oxygen, the appearance of carbon monoxide CO, carbon dioxide CO₂, ammonia NH₃ and many others. The ICP DAS's mini weather station DLW-1243 not only provides meteorological data monitoring, but also can track data on toxic gases such as CO, CO₂, and NH₃. The mini weather station can also be used with the IIoT edge controller WISE-5231M-4GE. When the content of toxic gas exceeds the set value, equipment such as ventilation and light alarm will be started immediately. The exhaust fan is used to remove harmful gases, and fresh air will be supplied to the underground mine through other pipes to ensure good air circulation and reduce accidents.



DL-100 Series

DLW-1XXX Series



Smart Greenhouses - Perfect Integration of IoT and Agricultural Technology



Smart greenhouses in the Netherlands collect data through an IoT system that automatically adjusts lighting, temperature, water supply, and carbon dioxide levels to maintain the best growing conditions. ICP DAS' s DLW-1XXX mini weather station can be used together with the WISE-5231M-4GE IIoT edge controller to execute logic control. When the DLW-1XXX mini weather station detects that the temperature inside the greenhouse exceeds the normal range, the WISE -5231M -4GE IIoT edge controller will activate the water valve to adjust the temperature. For instance, if the temperature is too high, the water will run down along the greenhouse glass roof, absorbing the excess heat, then the heated water will be stored in the outside water tank. When the temperature is too low, the heated water will be returned to the greenhouse. This method can save 50% of energy consumption. Heating, humidification, and other systems can help if necessary.

Smart Agriculture/Irrigation/Air Quality Monitoring & Environmental Management in Outdoor Areas

The combination of IoT and agriculture has become a trend in recent years. The DLW-1XXX mini weather station can collect various environmental data related to agriculture, such as temperature, humidity, precipitation, illumination, wind direction, wind speed, and gas concentration. The DLW-1XXX mini weather station can be used together with the WISE-5231M-4GE IIoT edge controller and the M-7000 series I/O module to activate irrigation sprinklers and lighting equipment in outdoor areas according to environmental changes. It helps users solve the problems of planting, seedling cultivation, irrigation, fertilizer use, pest and disease control, thereby contributing to the improvement of crop quality.

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    graph TD
      WS[Mini Weather Station DLW-1XXX Series] -- RS-485 --- EC[IIoT Edge Controller WISE-5231M-4GE]
      EC -- RS-485 --- M7000_1[M-7000 Series]
      EC -- RS-485 --- M7000_2[M-7000 Series]
      M7000_1 --- SS[Soil Sensor]
      M7000_2 --- L[Light]
      M7000_2 --- S[Sprinkler]
  
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Air Quality and Meteorological Data Collection Solutions for Maritime Affairs and Ports

As an important hub of international trade, maritime affairs and ports are gradually being included as one of the productivity indicators. For example, the current international assessment of green ports is based on real-time air quality in ports. Exhaust gases emitted by ships, diesel fuel, and fuel oil used by machines and vehicles will be considered in the assessment as well.

The industrial-grade DLW-1XXX mini weather station from ICP DAS can not only measure wind speed, wind direction, precipitation, and provide illumination data, but also can help to collect relevant H₂S, NO_x, and PM_{2.5} data, which the Port Authority pays the most close attention. Thus making it possible to improve air quality and promote policies to reduce air pollution in commercial ports.



Air Quality Monitoring in Resorts/Recreation Areas

As the Covid-19 pandemic broke out, people's awareness of public environmental safety has risen. When tourists visit crowded public places such as resorts or recreation areas, they begin to pay attention to relevant air quality information. ICP DAS's DLW-1XXX mini weather station can monitor the meteorological and air quality data, for example, temperature, humidity, CO, CO₂, HCHO, negative air ions concentration, and PM₁/2.5/10. The DLW-1XXX can be used together with ICP DAS's WISE-5231M-4GE IIoT edge controller and iKAN series industrial LED display to show the data that helps management personnel to control and ensure the safety of tourists.

Industrial Exhaust Emissions Monitoring

With the rise of the ESG concept, achieving a balance between energy and environmental protection has become a major challenge faced by businesses. With intelligent technology, the DLW-1XXX mini weather station can measure a variety of air pollution data, helping users to control exhaust emissions in accordance with the standards set by the Environmental Protection Administration (EPA) and other competent authorities.

The DLW-1XXX mini weather station can be easily installed and used anywhere, such as in smokestacks 50 or 100 meters high, as well as raw material storage tanks in the petrochemical industry. Besides measuring temperature, humidity, atmospheric pressure, illuminance, precipitation, wind direction and speed, it can also provide various air quality parameters, such as PM₁/2.5/10, CO, CO₂, O₂, NH₃, H₂S, TVOC, HCHO, and others.

Customers can use the WISE-5231M-4GE IIoT edge controller to perform on-site logic control, alarm notification, data collection, device management, and wireless data transmission.

Recommended Products



Mini Weather Station
DLW-1XXX Series



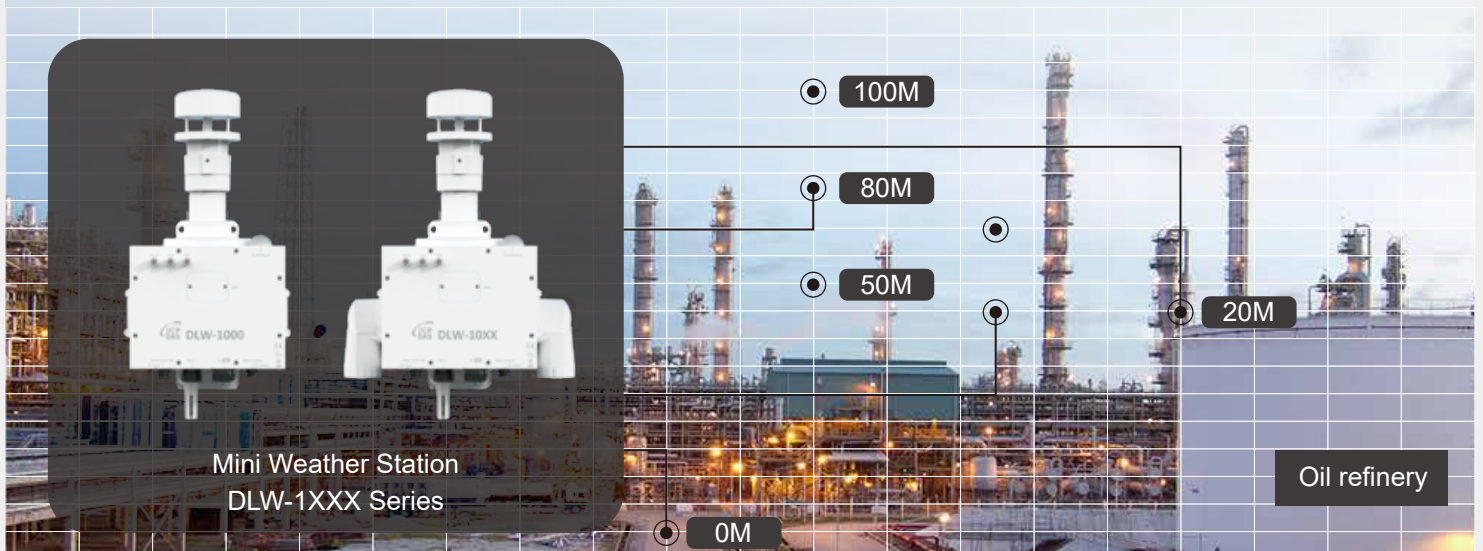
Industrial LED Display
iKAN Series



IIoT Edge Controller
WISE-5231M-4GE



Sound & Light Alarm Module
ALM-Horn-MRTU-BR



:: DLW-1XXX Mini Weather Station

Standard Specifications

Sensor Type	Range	Accuracy	Resolution	Response Time	Warm-up Time	Life Time
Wind Speed	0 ~ 40m/s	5%	0.01 m/s	-	-	-
Wind Direction	0 ~ 359°	<3°	1°	-	-	-
Pressure	300 ~ 1200 hPa	1 hPa	0.1 hPa	-	-	-
Precipitation	0 ~ 100mm/hr	± 10%	0.01 mm/hr	-	-	-
Sea Level	-50 ~ 9000 m	-	0.1 m	-	-	-
Temperature	-40°C ~ +80°C	± 0.5°C	0.1 °C	-	-	10 years
Humidity	0 ~ 100%	± 2%	0.1%	-	-	10 years
Illuminance	0 ~ 20,000 Lux	± 5%	1 Lux	-	-	-
PM1.0/2.5/10(Note1)	0 ~ 500µg/m ³	± 10%	1 µg/m ³	1 sec.	20 secs.	5 years

Note1 : The filter patch (FLT-C004) can be replaced by yourself

:: DLW-1XXX Mini Weather Station

Gas Sensor Optional Specifications

Gas Sensor	Range	Accuracy	Resolution	Response Time	Warm-up Time	Life Time
CO	0 ~ 1000 ppm (Electrochemical)	± 5%	1 ppm	30 secs.	60 secs.	5 years
CO ₂	0 ~ 9999 ppm (NDIR)	± 3%	1 ppm	120 secs.	300 secs.	15 years
HCHO	0 ppb ~ 2000 ppb (Electrochemical)	± 10%	1 ppb	≤ 60 secs.	180 secs.	3 years
TVOC	0 ppb ~ 60000 ppb (MEMS Metal Oxide)	± 15%	1 ppb	60 secs.	180 secs.	5 years
NH ₃	0 ~ 100 ppm (Electrochemical)	± 5%	1 ppm	≤ 40 secs.	60 secs.	2 years
H ₂ S	0 ~ 100 ppm (Electrochemical)	± 5%	1 ppm	≤ 30 secs.	60 secs.	2 years
O ₂	0~25% (Luminescence for O ₂ sensor)	± 2%	0.01%	≤ 30 secs.(typical)	120 secs.	5 years

:: Related Products

On-site Environmental Monitoring Module



iKAN Series

Industrial LED Display
Supports multiple languages



iCAM-ZMR8422X

HD IP Camera
Supports remote control
from a smartphone



ALM-04-MRTU

MP3 Alert Module
Supports RS-485 interface

IIoT Edge Controller



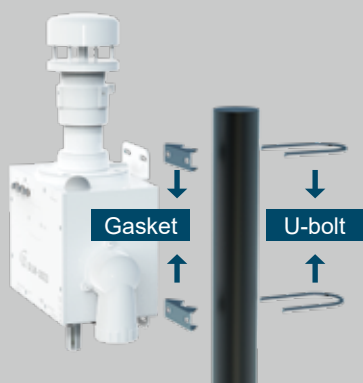
WISE-5231M-4GE

IIoT Edge Controller
Remote monitoring/
Alert notification

Model		DLW-10XX/DLW-11XX/DLW-12XX/DLW-13XX	DLW-1000/DLW-1100/DLW-1200/DLW-1300
COM Ports			
Ports		1 x RS-485	
Baud Rate		1200 ~ 115200 bps	
Protocol		Modbus RTU	
Ethernet			
Ports		10/100 Base-TX, 8-Pin RJ-45 x1	
Security		Password and IP Filter	
Protocol		Modbus TCP and MQTT	
System			
Alarm	Weather monitoring	Wind Speed, Wind Direction, Pressure, Illuminance, Sea Level, RH/T, Precipitation, Particulates,	Wind Speed, Wind Direction, Pressure, Illuminance, Sea Level, RH/T, Precipitation
	Gas monitoring	CO, CO ₂ , HCHO, TVOC, NH ₃ , H ₂ S, O ₂	-
Real Time Clock		Yes	
Data Logger		Yes	
Relay Output		PhotoMOS Relay, Form A x 4, SPST 100 VDC @1A	
CPU Module			
Watchdog Timer		Yes, Module, Communication (Programmable)	
Power			
Powered from Terminal Block		+12 to +48 VDC	
Powered from PoE		IEEE 802.3af, Class 1 (48 V)	
Power Consumption	PoE	3.33 W Max	1.10 W Max
	Non-PoE	3.01 W Max	0.88 W Max
LED Indicators			
Status	PWR	Green for normal operation	
	Link	Green for the Ethernet-linked	
	Alarm	Red for an alarm condition	
Mechanical			
Installation		U-bolt or Wall Mounting	
Dimensions (mm)		288 x 122 x 389 (W x L x H)	190 x 134 x 389 (W x L x H)
Weight		2.45 KG	2.26 KG
Ingress Protection Rating		IP54	IP67
Environment			
Operating Temperature		-20 ~ +50°C	
Storage Temperature		-30 ~ +75°C	
Humidity		10% ~ 90% RH, Non-condensing	

Installation Method

U-bolt Pole Mounting



Wall Mounting



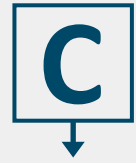
DLW-1



- 0 : Wind Speed, Wind Direction, RH/T, Pressure, Illuminance, Sea Level
- 2 : PM1/2.5/10+Particle
- 3 : PM1/2.5/10+CO+CO₂+Particle
- 4 : NH₃
- 5 : O₂
- 1 : CO
- 2 : CO₂
- 3 : CO+CO₂
- 4 : HCHO+TVOC
- 5 : NH₃
- 6 : H₂S
- 7 : HCHO
- 8 : TVOC

DLW-10XX Series	Sensor												Mechanical	
	Gas Monitoring							Particulates	Weather Monitoring					
	CO	CO ₂	HCHO	TVOC	NH ₃	H ₂ S	O ₂	PM1, PM2.5, PM10 Particle	Wind Speed Wind Direction Temperature Humidity	Pressure / Sea Level	Illuminance	Precipitation		
DLW-1000	-	-	-	-	-	-	-	-						A
DLW-1001	√	-	-	-	-	-	-	-						
DLW-1002	-	√	-	-	-	-	-	-						
DLW-1003	√	√	-	-	-	-	-	-						
DLW-1004	-	-	√	√	-	-	-	-						
DLW-1005	-	-	-	-	√	-	-	-						
DLW-1006	-	-	-	-	-	√	-	-						
DLW-1007	-	-	√	-	-	-	-	-						
DLW-1008	-	-	-	√	-	-	-	-						
DLW-1020	-	-	-	-	-	-	-	√						
DLW-1021	√	-	-	-	-	-	-	√						
DLW-1022	-	√	-	-	-	-	-	√						
DLW-1023	√	√	-	-	-	-	-	√						
DLW-1024	-	-	√	√	-	-	-	√						
DLW-1025	-	-	-	-	√	-	-	√						
DLW-1026	-	-	-	-	-	√	-	√						
DLW-1027	-	-	√	-	-	-	-	√						
DLW-1028	-	-	-	√	-	-	-	√						
DLW-1034	√	√	√	√	-	-	-	√						
DLW-1035	√	√	-	-	√	-	-	√	√	√	√	-		B
DLW-1036	√	√	-	-	-	√	-	√						
DLW-1037	√	√	√	-	-	-	-	√						
DLW-1038	√	√	-	√	-	-	-	√						
DLW-1041	√	-	-	-	√	-	-	-						
DLW-1042	-	√	-	-	√	-	-	-						
DLW-1043	√	√	-	-	√	-	-	-						
DLW-1044	-	-	√	√	√	-	-	-						
DLW-1046	-	-	-	-	√	√	-	-						
DLW-1047	-	-	√	-	√	-	-	-						
DLW-1048	-	-	-	√	√	-	-	-						
DLW-1050	-	-	-	-	-	-	√	-						
DLW-1051	√	-	-	-	-	-	√	-						
DLW-1052	-	√	-	-	-	-	√	-						
DLW-1053	√	√	-	-	-	-	√	-						
DLW-1054	-	-	√	√	-	-	√	-						
DLW-1055	-	-	-	-	√	-	√	-						
DLW-1056	-	-	-	-	-	√	√	-						
DLW-1057	-	-	√	-	-	-	√	-						
DLW-1058	-	-	-	√	-	-	√	-						

DLW-1



1 : Wind Speed, Wind Direction,
RH/T, Pressure, Illuminance,
Sea Level, Precipitation

2 : PM1/2.5/10+Particle
3 : PM1/2.5/10+CO+CO₂+Particle
4 : NH₃
5 : O₂

1 : CO
2 : CO₂
3 : CO+CO₂
4 : HCHO+TVOC

5 : NH₃
6 : H₂S
7 : HCHO
8 : TVOC

DLW-11XX Series	Sensor												Mechanical	
	Gas Monitoring							Particulates	Weather Monitoring					
	CO	CO ₂	HCHO	TVOC	NH ₃	H ₂ S	O ₂	PM1, PM2.5, PM10 Particle	Wind Speed Wind Direction Temperature Humidity	Pressure / Sea Level	Illuminance	Precipitation		
DLW-1100	-	-	-	-	-	-	-	-						A
DLW-1101	√	-	-	-	-	-	-	-						B
DLW-1102	-	√	-	-	-	-	-	-						
DLW-1103	√	√	-	-	-	-	-	-						
DLW-1104	-	-	√	√	-	-	-	-						
DLW-1105	-	-	-	-	√	-	-	-						
DLW-1106	-	-	-	-	-	√	-	-						
DLW-1107	-	-	√	-	-	-	-	-						
DLW-1108	-	-	-	√	-	-	-	-						
DLW-1120	-	-	-	-	-	-	-	√						
DLW-1121	√	-	-	-	-	-	-	√						
DLW-1122	-	√	-	-	-	-	-	√						
DLW-1123	√	√	-	-	-	-	-	√						
DLW-1124	-	-	√	√	-	-	-	√						
DLW-1125	-	-	-	-	√	-	-	√						
DLW-1126	-	-	-	-	-	√	-	√						
DLW-1127	-	-	√	-	-	-	-	√						
DLW-1128	-	-	-	√	-	-	-	√						
DLW-1134	√	√	√	√	-	-	-	√						
DLW-1135	√	√	-	-	√	-	-	√	√	√	√	√		
DLW-1136	√	√	-	-	-	√	-	√						
DLW-1137	√	√	√	-	-	-	-	√						
DLW-1138	√	√	-	√	-	-	-	√						
DLW-1141	√	-	-	-	√	-	-	-						
DLW-1142	-	√	-	-	√	-	-	-						
DLW-1143	√	√	-	-	√	-	-	-						
DLW-1144	-	-	√	√	√	-	-	-						
DLW-1146	-	-	-	-	√	√	-	-						
DLW-1147	-	-	√	-	√	-	-	-						
DLW-1148	-	-	-	√	√	-	-	-						
DLW-1150	-	-	-	-	-	-	√	-						
DLW-1151	√	-	-	-	-	-	√	-						
DLW-1152	-	√	-	-	-	-	√	-						
DLW-1153	√	√	-	-	-	-	√	-						
DLW-1154	-	-	√	√	-	-	√	-						
DLW-1155	-	-	-	-	√	-	√	-						
DLW-1156	-	-	-	-	-	√	√	-						
DLW-1157	-	-	√	-	-	-	√	-						
DLW-1158	-	-	-	√	-	-	√	-						

DLW-1

2

X

C

2 : Wind Speed, Wind Direction, RH/T

2 : PM1/2.5/10+Particle
3 : PM1/2.5/10+CO+CO₂+Particle
4 : NH₃
5 : O₂

1 : CO
2 : CO₂
3 : CO+CO₂
4 : HCHO+TVOC

5 : NH₃
6 : H₂S
7 : HCHO
8 : TVOC

DLW-12XX Series	Sensor												Mechanical	
	Gas Monitoring							Particulates	Weather Monitoring					
	CO	CO ₂	HCHO	TVOC	NH ₃	H ₂ S	O ₂	PM1, PM2.5, PM10 Particle	Wind Speed Wind Direction Temperature Humidity	Pressure / Sea Level	Illuminance	Precipitation		
DLW-1200	-	-	-	-	-	-	-	-						C
DLW-1201	√	-	-	-	-	-	-	-						
DLW-1202	-	√	-	-	-	-	-	-						
DLW-1203	√	√	-	-	-	-	-	-						
DLW-1204	-	-	√	√	-	-	-	-						
DLW-1205	-	-	-	-	√	-	-	-						
DLW-1206	-	-	-	-	-	√	-	-						
DLW-1207	-	-	√	-	-	-	-	-						
DLW-1208	-	-	-	√	-	-	-	-						
DLW-1220	-	-	-	-	-	-	-	√						
DLW-1221	√	-	-	-	-	-	-	√						
DLW-1222	-	√	-	-	-	-	-	√						
DLW-1223	√	√	-	-	-	-	-	√						
DLW-1224	-	-	√	√	-	-	-	√						
DLW-1225	-	-	-	-	√	-	-	√						
DLW-1226	-	-	-	-	-	√	-	√						
DLW-1227	-	-	√	-	-	-	-	√						
DLW-1228	-	-	-	√	-	-	-	√						
DLW-1234	√	√	√	√	-	-	-	√						
DLW-1235	√	√	-	-	√	-	-	√	√	-	-	-	-	D
DLW-1236	√	√	-	-	-	√	-	√						
DLW-1237	√	√	√	-	-	-	-	√						
DLW-1238	√	√	-	√	-	-	-	√						
DLW-1241	√	-	-	-	√	-	-	-						
DLW-1242	-	√	-	-	√	-	-	-						
DLW-1243	√	√	-	-	√	-	-	-						
DLW-1244	-	-	√	√	√	-	-	-						
DLW-1246	-	-	-	-	√	√	-	-						
DLW-1247	-	-	√	-	√	-	-	-						
DLW-1248	-	-	-	√	√	-	-	-						
DLW-1250	-	-	-	-	-	-	√	-						
DLW-1251	√	-	-	-	-	-	√	-						
DLW-1252	-	√	-	-	-	-	√	-						
DLW-1253	√	√	-	-	-	-	√	-						
DLW-1254	-	-	√	√	-	-	√	-						
DLW-1255	-	-	-	-	√	-	√	-						
DLW-1256	-	-	-	-	-	√	√	-						
DLW-1257	-	-	√	-	-	-	√	-						
DLW-1258	-	-	-	√	-	-	√	-						

DLW-1

3

↓

3 : Wind Speed, Wind Direction,
RH/T, Pressure, Sea Level

X

↓

2 : PM1/2.5/10+Particle
3 : PM1/2.5/10+CO+CO₂+Particle
4 : NH₃
5 : O₂

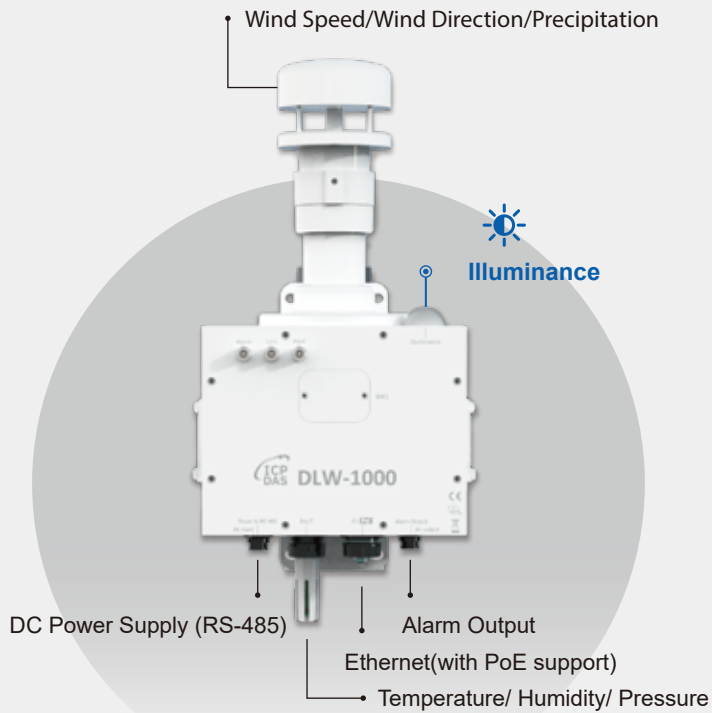
C

↓

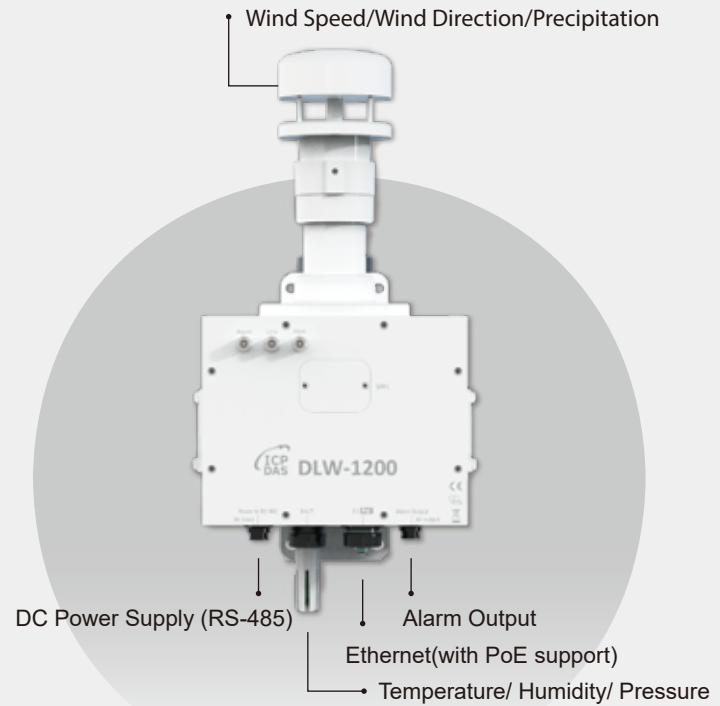
1 : CO
2 : CO₂
3 : CO+CO₂
4 : HCHO+TVOC
5 : NH₃
6 : H₂S
7 : HCHO
8 : TVOC

DLW-13XX Series	Sensor												Mechanical	
	Gas Monitoring							Particulates	Weather Monitoring					
	CO	CO ₂	HCHO	TVOC	NH ₃	H ₂ S	O ₂	PM1, PM2.5, PM10 Particle	Wind Speed Wind Direction Temperature Humidity	Pressure / Sea Level	Illuminance	Precipitation		
DLW-1300	-	-	-	-	-	-	-	-						C
DLW-1301	√	-	-	-	-	-	-	-						
DLW-1302	-	√	-	-	-	-	-	-						
DLW-1303	√	√	-	-	-	-	-	-						
DLW-1304	-	-	√	√	-	-	-	-						
DLW-1305	-	-	-	-	√	-	-	-						
DLW-1306	-	-	-	-	-	√	-	-						
DLW-1307	-	-	√	-	-	-	-	-						
DLW-1308	-	-	-	√	-	-	-	-						
DLW-1320	-	-	-	-	-	-	-	√						
DLW-1321	√	-	-	-	-	-	-	√						
DLW-1322	-	√	-	-	-	-	-	√						
DLW-1323	√	√	-	-	-	-	-	√						
DLW-1324	-	-	√	√	-	-	-	√						
DLW-1325	-	-	-	-	√	-	-	√						
DLW-1326	-	-	-	-	-	√	-	√						
DLW-1327	-	-	√	-	-	-	-	√						
DLW-1328	-	-	-	√	-	-	-	√						
DLW-1334	√	√	√	√	-	-	-	√						
DLW-1335	√	√	-	-	√	-	-	√	√	√	-	-	-	D
DLW-1336	√	√	-	-	-	√	-	√						
DLW-1337	√	√	√	-	-	-	-	√						
DLW-1338	√	√	-	√	-	-	-	√						
DLW-1341	√	-	-	-	√	-	-	-						
DLW-1342	-	√	-	-	√	-	-	-						
DLW-1343	√	√	-	-	√	-	-	-						
DLW-1344	-	-	√	√	√	-	-	-						
DLW-1346	-	-	-	-	√	√	-	-						
DLW-1347	-	-	√	-	√	-	-	-						
DLW-1348	-	-	-	√	√	-	-	-						
DLW-1350	-	-	-	-	-	-	√	-						
DLW-1351	√	-	-	-	-	-	√	-						
DLW-1352	-	√	-	-	-	-	√	-						
DLW-1353	√	√	-	-	-	-	√	-						
DLW-1354	-	-	√	√	-	-	√	-						
DLW-1355	-	-	-	-	√	-	√	-						
DLW-1356	-	-	-	-	-	√	√	-						
DLW-1357	-	-	√	-	-	-	√	-						
DLW-1358	-	-	-	√	-	-	√	-						

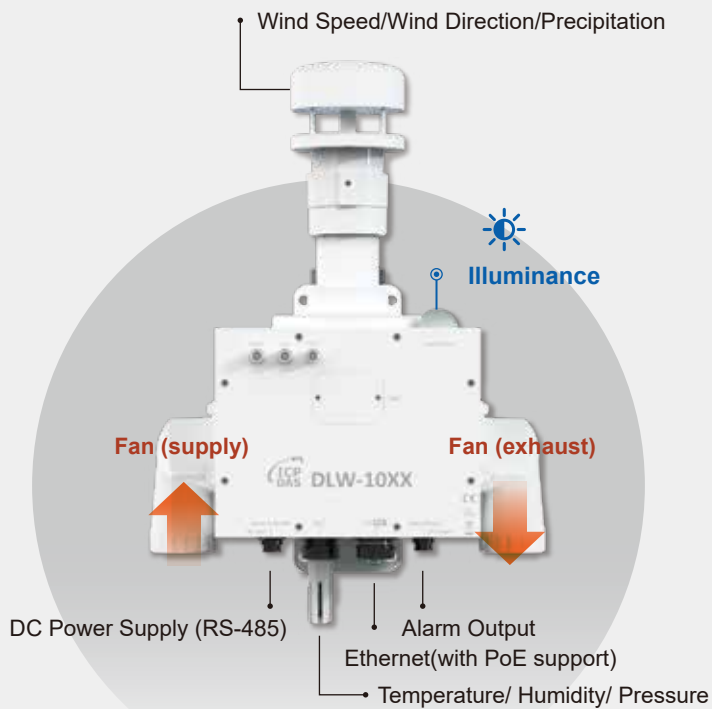
DLW-1000/DLW-1100 Type : A



DLW-1200/DLW-1300 Type : C



DLW-10xx/DLW-11xx Type : B



DLW-12xx/DLW-13xx Type : D

