Weather Instruments Catalog

Info-Electronics Systems Inc.

www.info-electronics.com

Value - Added Reseller & Systems Integrator for all your project requirements

ZOGLAB Atmosphere & Environment 佐格微系统(杭州)有限公司

HONGYUV

OSi

EVERISE

北京精波仪表有限公司 Beijing Precision Wave Instrument Co.,Ltd.

DAVIS

EKO

RainWise WEATHER BETTER.

MPS System

SIAP+MICROS

dualBASE decoding the environment

AXT Shenzhen AUTO Automation Technology Co,Ltd.

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About Us

- Weather and Water are our Business -

Incorporated in 1981, **Info-Electronics Systems Inc. (IES)** is an engineering, integration and project management company working in the field of computer-based technologies. IES, alongside its CRM services, develops systems and application software for Meteorology, Hydrology, Remote Sensing, Environmental Monitoring, Communications and Instrumentation.

With Headquarters in Montreal, Canada, IES also has an additional office in New Delhi, India. We have a strong Process Management Methodology as our Quality Management System (QMS) is registered as being in conformity with ISO 9001:2015.

Technology Domain

Technology Based Software Development:

- *Meteorology and Hydrology*
- *Remote Sensing*
- *Image Processing*
- *Environmental Monitoring*
- *Terrestrial & Satellite based Communications*
- *Telemetry*

Methodology & Services Domain

Employment of state-of-the-art techniques:

- *Project Management*
- *System and Software Development*
- *Configuration Management*
- *Training and Support*
- *Quality Assurance*

Info-Electronics Systems Inc.-Business Areas

Government

Civil Aviation

Meteorology

Public Security

Environmental Protection

Application

Hydrology

Renewable Energies

Military

Marine

Environnent

IES - Products, Solutions and Services

IES is a systems integration and *value-added services* company. We execute most high value projects with our partners.

Meteorology Instruments & Solutions

- *Automated Weather Stations*
- *Automated Weather Observing System*
- *Solar Monitoring Station*
- *Solar PV Monitoring Stations*
- *Road Weather Monitoring Station*
- *Automatic Rain Gauges*
- *Hand Held Weather Stations*
- *Indoor, Controlled Environmental Systems*

Metrology and Calibration

- *Temperature*
- *Humidity*
- *Pressure*
- *Rain fall*
- *Wind*
- *Visibility*

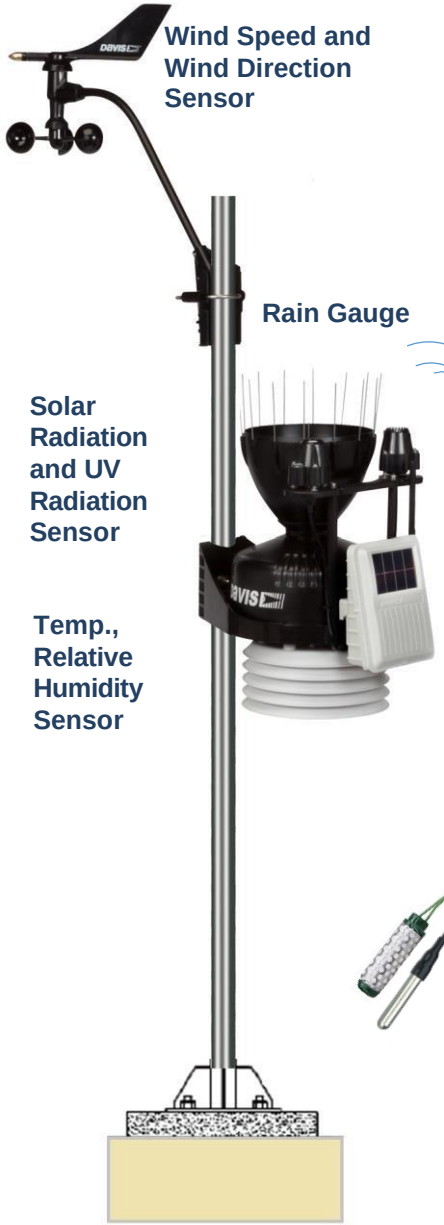
Hydrology Instruments & Solutions

- *Water Quality Sensors*
- *Smart Water Level*
- *Water Flow*
- *Rain gauges*
- *Discharge measurement*
- *Etc…*
- *Flood Monitoring & Warning Stations*
- *Hydrological Decision Support Systems*

Other Hydro-Met Instruments & Solutions

- *Remote Sensing LIDAR Detection*
- *Air Quality Station*
- *Haze Monitor*
- *Pollutant Source VOC Monitor*
- *Microwave Radiometers*
- *Weather Radars / Wind Profilers*
- *Lightning Detection*
- *GHG Monitoring*
- *Disdrometers*
- *Present Weather Station*
- *EWS Early Warning Systems*

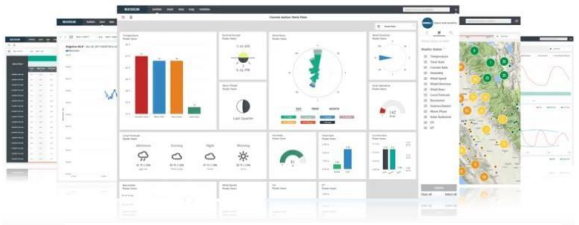
Davis Instruments - Automatic Weather Stations



Wireless Communications
865.0 - 867.0 MHz, less than 10mW, no license required
up to 1000 feet (300 m) - Line of Sight

WeatherLink Smart App

WeatherLink Console



WeatherLink.com suite

WeatherLink Software
Puts field data in your hands to make smart agriculture decisions

View your data | Customized Dash Board | Get Alerts | Chart and Data | Visualize Historical data | Customized layout | Compare Data | Export Data | View Public Stations | Look at Current Data | See Stations Dash Board | View Frost, weather, crop, and irrigation chart in mobile app | Set Alert for specific Condition | Free Mobile App | Share public weather data |

Siap+Micros - Automatic Weather Stations

Siap+Micros designs, manufactures and installs systems and turnkey services for environmental monitoring.

Anemometers

Sensor for Wind Direction, Wind speed, separated or combined in a single sensor.

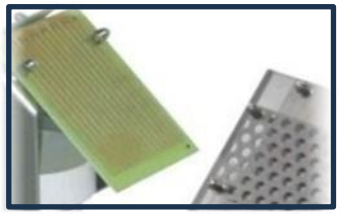
Dataloggers

Atmospheric Pressure

Precision and reliable electronic barometers with analog and digital output proportional to the atmospheric pressure detected.

Hydrometric and Snow Level

Monitoring sensors for level of hydric bodies such as sea, river, basin, or in general water bodies and of snow level on a specific surface.



Wet Leaf and Rain Presence Transducer

Sensors for reporting the pres– ence of rainfall or of humidity on the leaf surface.

Precipitation and Atmospheric Sedimentation

Instruments for rainfall or generally for the atmospheric precipitation measurement. They are available in different features according to the needs.

Solar Radiation

Sensors for measurement and detection of the different characteristics of the solar radiation.

Temperature

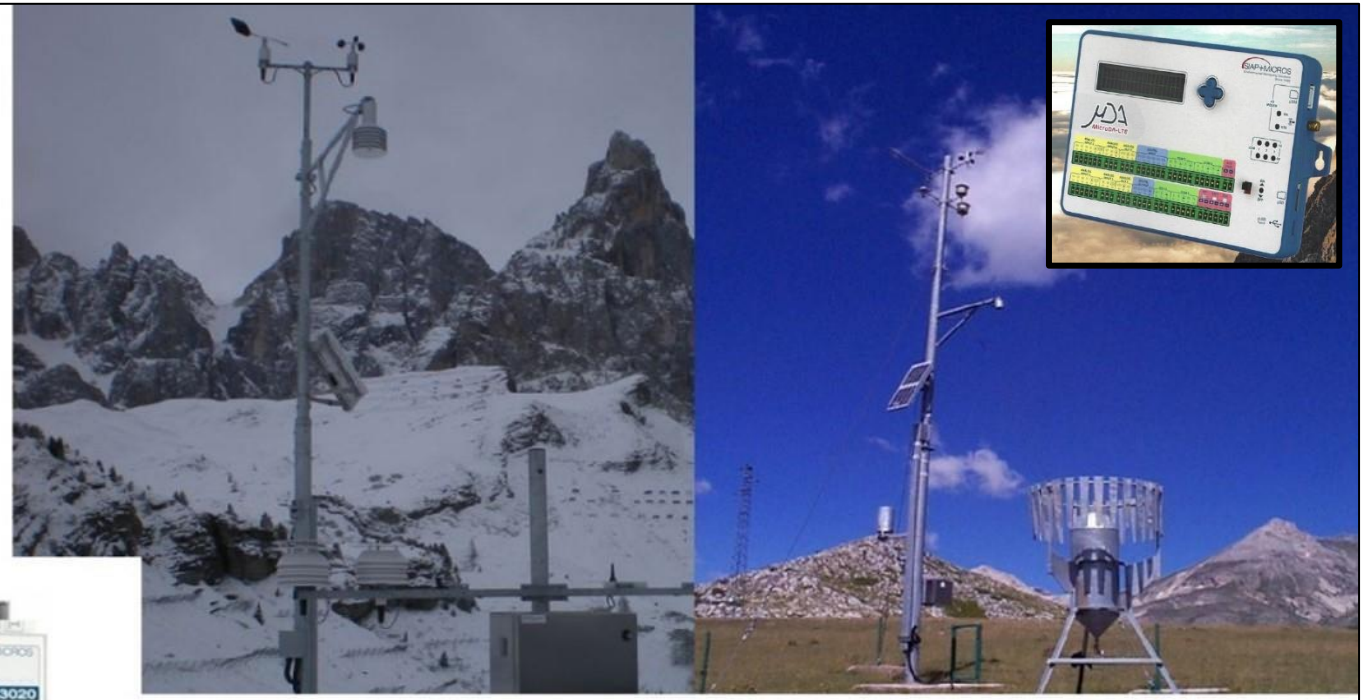
Sensors of temperature with PT100 sensing element. They are available in different versions depending on the needs.

Humidity

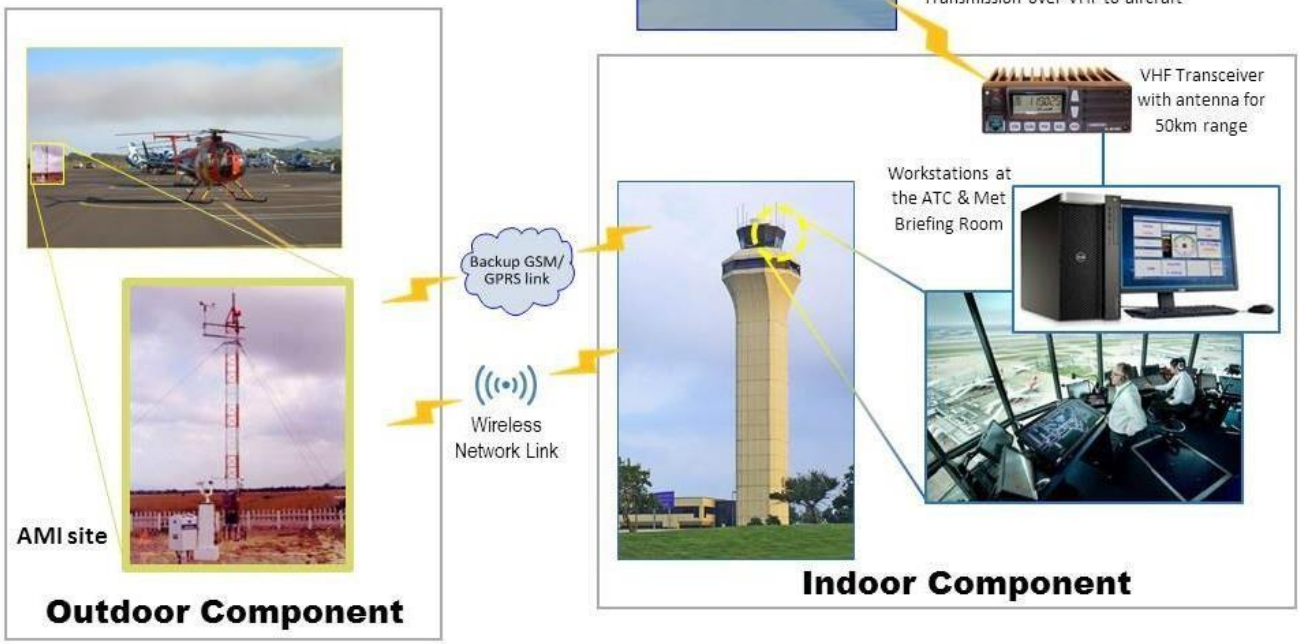
Sensors for Relative air Humidity monitoring. Versions for interior and external environments (with UV protection screens) are available.

Combined Temperature and Humidity

Sensors for Air Temperature and Relative Humidity monitoring, combined into a single body. Versions for interior and external environments are available.



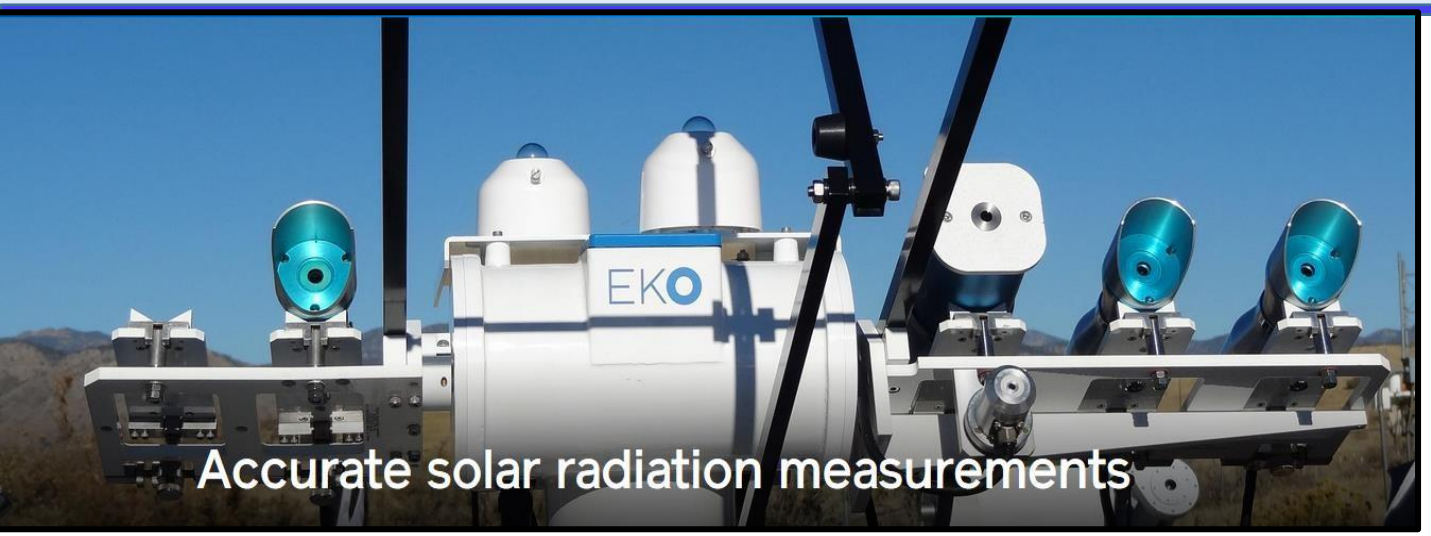
OSI- Automated Weather Observing Systems (AWOS)



- *FAA-barometric sensor*
- *FAA-Visibility sensor*
- *Wind speed & dir. sensor*
- *Temperature sensor*
- *Humidity sensor*
- *Ceilometer*
- *Present Weather*

We design and build the most advanced optical instruments in the world for measuring precipitation, air flow, turbulence, and visibility.

EKO Instruments - Solar Monitoring Station



IESI is ©pioneer in providing complete solutions in the solar energy sector. IES takes full responsibility in providing state of the art solar instrumentation for the following applications.

- *Accurate solar radiationmeasurements*
- *DHI Measurements*
- *Solar Radiation Measurements in PV applications*
- *DNI measurements with a Pyrheliometer*
- *DNI measurements at CPV sites*
- *Measuring spectral irradiance*
- *PV Modules performance assessment*
- *PV Site Solar monitoring*
- *Stability monitoring of Sun simulators*
- *Spectral DNI Measurements*
- *Solar radiation energy budgets studies*
- *Spectral irradiance portable solutions*
- *Outdoor material testing*
- *Measure spectral irradiance of sun simulator*
- *Application which require a fast response time*

Pyranometers

Sun Trackers

Spectroradiometers

PV Met Stations

Pyrheliometers

UV Sensors

Solar Monitoring

Si-Pyranometers

All Sky Imager

Pyrgeometers

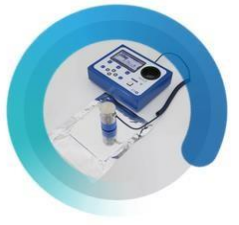
NET Radiometers

Sunshine Duration

Sky Scanners

Handheld Spectroradiometers

Heat Flux Sensors


Thermal Conductivity Testers

Weather Instruments by RainWise - Solar PV Monitoring Stations

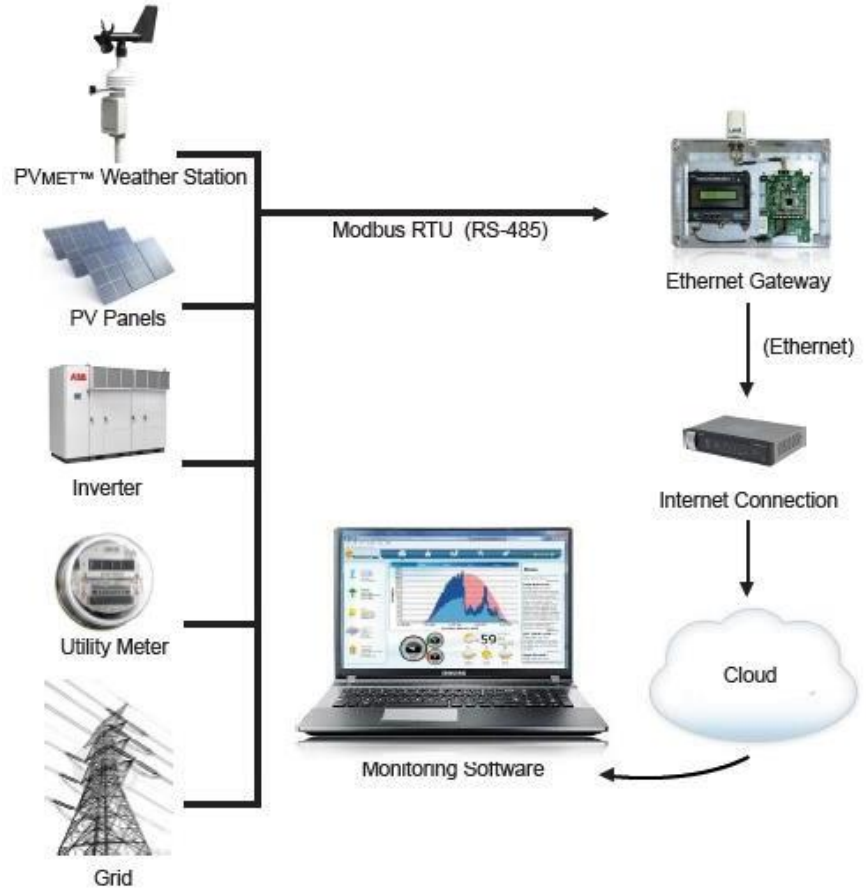
From its founding in 1974, RainWise has paved the way for professional-grade meteorological equipment to empower operations leaders in industries ranging from agriculture, industrial, manufacturing, engineering, and technology to make informed decisions based on weather data.

PV met Weather Station

GET THE BANKABLE DATA YOU NEED

for Monitoring and Maintenance!

The PVmet™ weather station provides strategic environmental data that significantly increases the value of any on-site monitoring system. This fully assembled station allows for rapid out-of-the-box installation and simple hook up with standard Modbus RTU interface.



Maximize PV Output with Informed Efficiency Monitoring

Leading inverter and monitoring companies have chosen RainWise as the #1 provider of meteorological stations due to our proven reliability, easy deployment and accurate data. The RainWise PVmet™ family of weather stations offers a powerful add-on to any solar plant monitoring system. Featuring accurate sensors and standard communication integration, the PVmet™ is an economical addition to insure the highest PV panel output. Standard models come fully assembled, are easy to install and are fully operational in a matter of minutes. Every model of PVmet™ offers:

Efficient Operation	Rugged, Compact Design	Multiple Communication Protocols
• Comes fully assembled, easy set-up	• Durable & weather resistant	• Most models SunSpec certified or compliant
• Accurate weather sensors for efficiency monitoring	• Ultra-violet inhibited	• Simple integration via Modbus RTU interface using RS-485
• Operates over a broad range of temperatures	• Stainless steel hardware	
	• Optional add-on sensors	
	• 2 year warranty	

Hong Yuv Technology Co., Ltd. - Compact Weather Stations

Their meteorological products are widely used in traffic control, offshore platforms and wind plant applications in China.

They manufacture and develop the following products:

- *2D ultrasonic anemometer*
- *24GHz Radar rain gauge*
- *Optical rain gauge*
- *all-in-one ultrasonic weather station*
- *forward scattering visibility sensor*
- *infrared remote road surface state & temperature sensor*
- *tunnel luminance/illuminance sensor*
- *tunnel ultrasonic airflow sensor, CO/VI sensor*
- *Davis VP2 compatible solar radiation, ultrasonic anemometer (plug & play)*

Vehicle AWS with APP and Software

AT/RH/BP

Radar Rain

Ultrasonic Anemometers

All in One Weather Station

Mini Weather Station

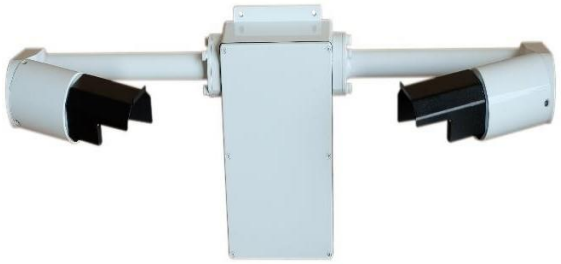
Surface Temperature

Portable Weather Station

Hong Yuv Technology Co., Ltd. - Visibility & Road Surface Sensors

Visibility Sensor MINI Present Weather Sensor

- *Back-scattering principle, compact structure*
- *Weather status detection, identify rain, snow, hail*
- *Various output signal for option.*
- *No moving parts, maintenance-*



Visibility Sensor

- *Especially built for Traffic Applications*
- *10m to 10km measurement range*
- *Ideal for road long distance visibility data collection*
- *Accurate and traceable measurement*
- *High mechanical strength*
- *Low maintenance requirement*
- *Simple Installation and Maintenance*
- *Compact forward design*
- *Not affected by local lights*
- *Hood heating for use in extreme environments*

Smart Visibility Sensor

- *Easy installation and start-up*
- *Analogue and digital Interfaces*
- *Correct measurement long term stability*
- *Representative measurement*
- *Low installation expenditures*
- *Maintenance on request*
- *Quick response time*
- *10 m to 3000 m*

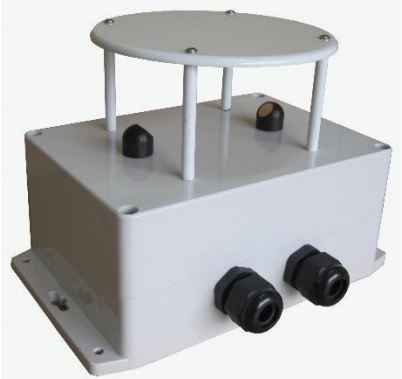
Non-contact Road Surface State Sensor

- *Remote monitoring water, ice and snow*
- *Remote surface state sensing*
- *Measure amount of water, ice, and level of grip*
- *No embedded installation*
- *Anti-corrosion*
- *Infrared detection, distance up to 15.5 meters*
- *Easy for installation with*

Hong Yuv Technology Co., Ltd. - Tunnel Sensors

Tunnel Visibility Sensor

- *Non Contact, High resolution visibility measurement*
- *Measurement is completely free from the influence of other stray light sources*
- *Specially designed for harsh environment of tunnel;*
- *Measurement is totally free from vibration caused by environment and moving vehicles;*
- *Instrument is equipped with state display, fault alarm and data storage function, which is convenient for debugging and maintenance of equipment*
- *Unique compensation*



Tunnel Ultrasonic Wind Sensor

- *Especially built for Traffic Applications*
- *Cast aluminum body, anodized surface for harsh environments in the tunnel*
- *Ultrasonic measurement free from influence of ambient temperature*
- *Non-contact detection, no moving parts, reduce the failure rate*

Crossed Tunnel Ultrasonic Wind

- *Cast aluminum body, anodized surface for harsh environments in the tunnel*
- *Large sampling area, accurately reflect the air flow rate in tunnel*
- *Ultrasonic measurement free from influence of ambient temperature*
- *Non-contact detection, no moving parts, free of maintenance*

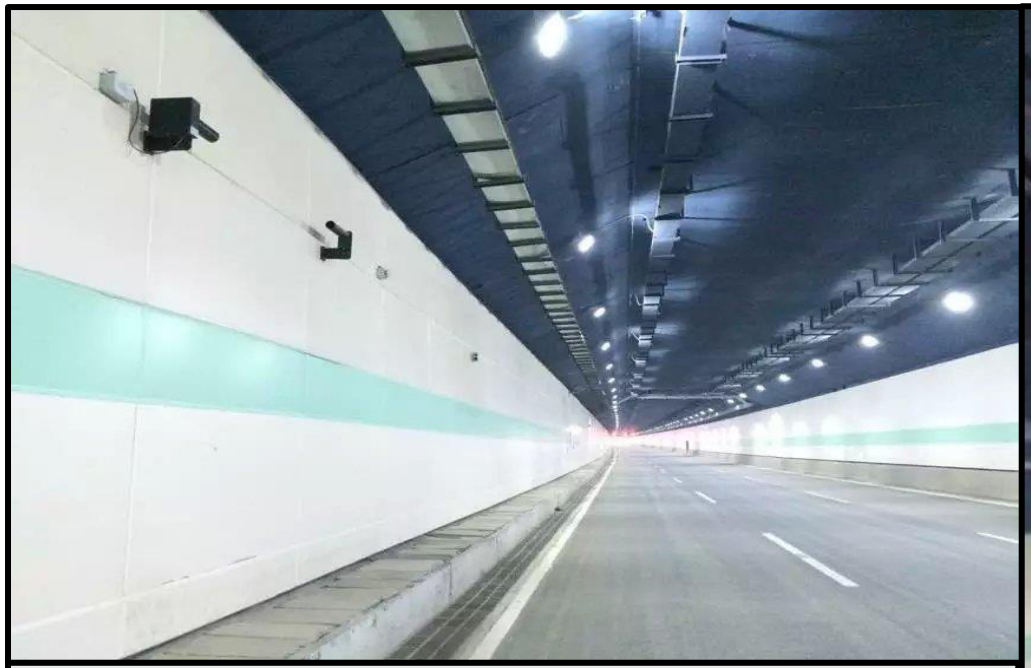
Tunnels Entrance Photometer

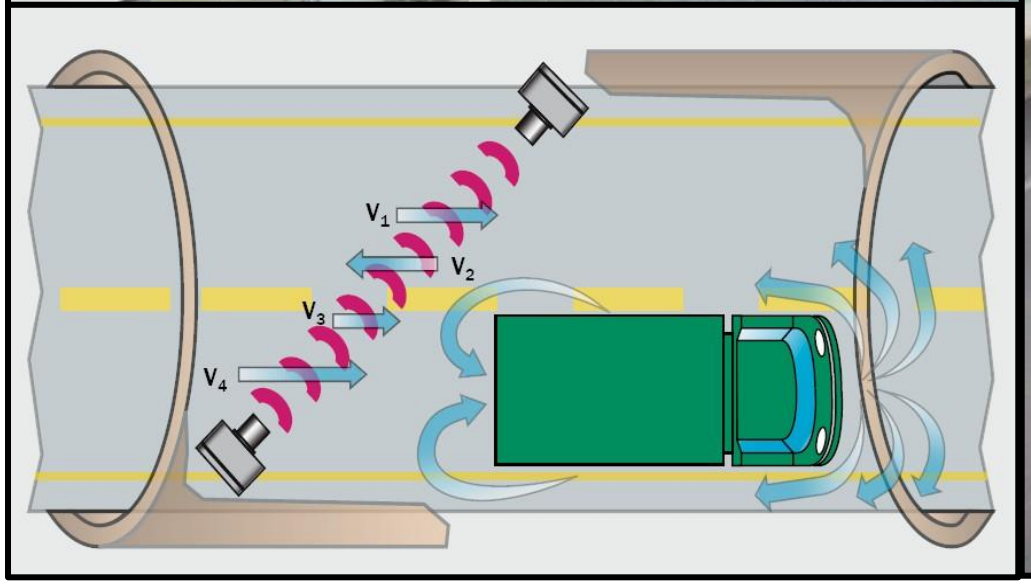
- *CIE Approved measurement*
- *technology*
- *Accurate measurement of tunnel entrance luminance*
- *Designed specifically for tunnels*
- *Rugged construction*
- *Simple installation/operation*
- *Isolated 4-20mA analogue outputs*
- *Alarm relay contacts*
- *ModBus serial comms*

Hong Yuv Technology Co., Ltd. - Tunnel Sensors

Tunnel Height Detector

- *Uses a small double-layered beam-type structure (consisting of an infrared light transmitter and receiver) with two invisible infrared beams as a warning line.*
- *When a vehicle exceeding the limit height passes, when the car hits the photoelectric signal, the beam is blocked, the receiver sends an alarm signal (switching amount), and can trigger other devices*
- *Suitable for highway tunnels, urban underpass tunnels, highway bridges, etc.*





Everise - Air Quality Monitoring

Everise Technology Ltd. designs and produces a complete range of state of the air analyzers, sampling systems, calibration systems, data acquisition and software for the measurement and reporting of regulatory pollutants particulates.

Everise major products include:

- Remote sensing lidar monitoring system,
- Ambient air quality monitoring system,
- Online VOCs monitoring system,
- Haze monitoring & early warning system, and mobile monitoring vehicle system.

Sensor-based Air quality Monitor InterAir

InterAir is a sensor-based air quality monitor for real-time measurement of key pollutants in ambient air. The InterAir is designed with small sensitive sensors to aquire air quality information, and a unique software platform for data processing and data analysis. The system comes with robust hardware including well-designed enclosure, GPRS or 3G communication, solar panel & batteries, and user-friendly software platform for real-time AQ data display, auto calibration, AQ forecast etc.

It's widely used in larger-scale deployment for traffic management across the roads, tunnels or airports, for fence line monitoring around construction sites or industrial sites, for air quality monitoring in urban cities or countryside.

General parameters

- *Power supply: When there is a sudden power failure, the system can be powered by the back-up batteries. The solar panel is optional for power supply;*
- *Data storage: The system can save at least 6 months measurement data;*
- *Calibration: Manual-calibration and auto-calibration are available;*
- *Power:Less that 20W;*
- *Working Temperature:-20℃-50℃;*
- *Locating: GPS;*
- *Communication: 4G, GPRS, WIFI, RS485;*
- *Lifespan: >2 years*;

EVPM 200- PM_{10} Particulate Analyzer

Instrument Configuration

- *EVPM200 analyzer*
- *External pump components*
- *HST heating sampling tube with constant*
- *Temperature (adjustable length)*

Application Areas

- *Ambient air quality monitoring*
- *Indoors air quality monitoring*
- *Long-term background environment research*
- *Particulates monitoring of factory, park and construction site*
- *Particulates monitoring of wasteyard*

EVPM 100 - $PM_{2.5}$ Particulate Analyzer

Instrument Configuration

- *EVPM100 analyzer*
- *External pump components*
- *HST heating sampling tube with constant temperature(adjustable length)*

Application Areas

- *Ambient air quality monitoring*
- *Indoors air quality monitoring*
- *Long-term background environment research*
- *Particulates monitoring of factory, park and construction site*
- *Particulates monitoring of wasteyard*

Zoglab Microsystems - Handheld Weather Station

ZOGLAB
Atmosphere & Environment
佐格微系统(杭州)有限公司

ZOGLAB product lines cover areas of environmental and atmospheric monitoring, metrology and calibration, advanced meteorological systems, optical telemetry, and vertical observation.

In addition to professional instruments and systems, ZOGLAB designs, develops, and delivers highly customized solutions and turnkey projects. Key application industries include;

- *Meteorology,*
- *Hydrology,*
- *Aviation,*
- *Pharmaceutical,*
- *Chemicals, and*
- *Agriculture.*

Wireless Communication

Rechargeable

Rugged and Compact

External Displays

Water-proof Air Tap

Ultrasonic Wind Sensor

High-bright Display

Multiple Elements

Various - Automatic Rain Gauges

dualBase
Tipping Bucket Rain Gauge

Standalone or Rain Gauge Network using GSM/GPRS Telemetry

MPS systém Ltd.
Total Rain Weighing Sensor

Excellent tool to measure all types of precipitation within wide temperature range, harsh wind and snow conditions.

OSI
Optical Rain Gauge (ORG)

- *Instantaneous precipitation rate measurement*
- *Rainfall as light as 0.1 mm/hr. or as heavy as > 500mm/hr easily measured*
- *No evaporation errors, overflow or mechanical limits to worry about*
- *No moving parts, no antifreeze chemicals*
- *Operates 24/7 under harsh field conditions*
- *Dust / dirt on lenses does not affect measurement; ultra-low maintenance*
- *Lasts for years*

Precision Wave Instrument Co. - Water Level, Flow Sensors & Loggers

Beijing Precision Wave Instrument Co., Ltd provides their customers with safe and reliable products, solutions and services in the fields of:

- *Industrial automation*
- *Hydrology and*
- *Water conservancy*

26Ghz Smart Radar Water Level Meter

- *Water level monitoring of lakes, rivers, reservoirs, open channels and tides.*
- *Water level monitoring of lakes, rivers, reservoirs, open channels and tides.*
- *±3mm/±5mm/± 10mm (Accuracy)*
- *Agricultural irrigation, sewage treatment, hydrology and water*

RADAR Flow meter

- *Water level and flow velocity of open channels, such as river, reservoir gate, pipe network of subterranean river course and irrigation channel, Assisting water treatment operation, Flow measurement and water entry and drainage monitoring*
- *Speed range: 0.15~21m/s;*
- *Speed accuracy: ±8.8mm/S;*

Ultrasonic Water Level

- *Applications:water level measurement of agricultural irrigation, sewage treatment,hydrology and water conservancy, urban underground sewage, rainwater pipeline and inspection well.*
- *Maximum range: 0.4~10m*

AUTO automation technology Co., Ltd.-
Lightning Testing Equipment & Online Lightning Monitoring System

'With the development of society, the demand for lightning protection in all walks of life is also increasing. *AUTO Lightning Online Monitoring System* will protect all kinds of lightning protection devices.'

SPD Smart Monitoring Module

Lightning protection component test instrumentation

MOV/GDT manufacturers
Application manufacturers

Lightning impact simulation platform test equipment

- *SPD manufacturers*
- *Certification bodies*
- *Meteorological centers*
- *Military departments*
- *Laboratories*.

Automated testing equipment

- *For MOV/GDT/SPD manufacturers and*
- *CRCC certification*

Smart Monitoring Modules for Lightning Online Monitoring Systems

- *Telecommunications*
- *Electric Power*
- *New Energy*
- *Airport, Railway*
- *High Way*
- *Smart Grids and*
- *other industries*

Lightning Wave Generators

- *SPD manufacturers,*
- *Application manufacturers, Certification*
- *organization*

Hydrometeorology – Early Warning Network Example

WEATHER STATIONS
Rain Gauge + Data Logger with GPRS and Accessories

HYDRO STATIONS
Water Level Sensor
(Radar/Ultrasonic/Pressure/ Shaft Encoder) + Data logger and Accessories

OTHER NETWORKS
- *Solar Monitoring Network*
- *Lightning Network*
- *Road Quality Network*
- *Air Quality Network*
- *Etc..*

INTERNET

INTERNET

INTERNET

CONTROL STATION

Communication Device

Central Server

Data Bases

Warning Control Server

Reporting | Decision-Support Software Real-Time reception of data | Multiple-Storage Sites | Remote Monitoring of Collected data | Quality Data Dissemination | Automatic Warnings | SMS/Email messages

INTERNET

INTERNET

Early WARNING SOFTWARE
- *Emergency Warning Controller*
- *Meteorologists, Hydrologists*
- *Etc*

Stakeholders
- *Public Security Agencies*
- *Etc…*

VAR-Branch Locations

Contact Information - India

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