

Info-Electronics Systems

Weather & water are our business

IES is proud to bring to Canada the latest technologies in Remote Sensing, Analysis & Weather Forecasting through the representation of state-of-the-art meteorological instrumentation companies.

Not only do we represent these firms, but we act as a prime contractor, customer liaison and provide value-added services, including project management, software development, systems integration, installation, training, testing, support and post-maintenance support as well.



A Passion for Precision

G. Lufft Mess- und Regeltechnik GmbH, located in Fellbach near Stuttgart, has been developing and producing professional sensors and systems for climate and environment measurement for more than 130 years.

The precision workmanship of highly skilled specialists has enabled our LUFFT label to be known and the products to be purchased worldwide. Intelligent meteorological sensors form the basis of highly available measuring networks along roads, rails and at airports all over the world. Meteorological services and environmental bodies appreciate the precise and long-lasting Lufft quality as do building equipment manufacturers and energy suppliers as well.

APPLICATIONS

Applications in Meteorology:

- Climate research / Science Weather forecasting
- Extreme weather warnings
- Airport weather monitoring
- Hydro-Meteorology
- Agro-meteorological monitoring networks
- Roadway & Runway Weather



COMPACT WEATHER STATIONS WS-Series-All-in-one weather sensors

WS800-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind, NTC/T, Capacitive/RH/Pressure, Radar/Precipitation, radio wave emission/Lightning strikes

Parameters: Temperature, relative humidity, air pressure, wind direction, wind speed, precipitation intensity, precipitation quantity, radiation, lightning strikes

WS700-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind, NTC/T, Capacitive/RH/Pressure, Radar/Precipitation, radio wave emission/Lightning strikes

Parameters: Temperature, relative humidity, precipitation intensity, precipitation type, precipitation quantity, air pressure, wind direction, wind speed, radiation

WS601-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind, NTC/T, Capacitive/RH, MEMS capacitive/Pressure, Tipping spoon and bucket/Precipitation

Parameters: Temperature, relative humidity, precipitation, air pressure, wind direction, wind speed

WS600-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind, NTC/T, Capacitive/RH, MEMS capacitive/Pressure, 24 GHz Doppler radar/Precipitation

Parameters: Temperature, relative humidity, precipitation intensity, precipitation type, precipitation quantity, air pressure, wind direction, wind speed

WS510-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind, NTC/T, Capacitive/RH, MEMS capacitive/Pressure, Kipp&Zonen/Radiation

Parameters: Temperature, relative humidity, air pressure, wind direction, wind speed, radiation

WS502-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind, NTC/T, Capacitive/RH, MEMS capacitive/Pressure, Lufft Pyranometer/Radiation

Parameters: Temperature, relative humidity, air pressure, wind direction, wind speed, radiation

WS501-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind, NTC/T, Capacitive/RH/Pressure, Radar/Precipitation, radio wave emission/Lightning strikes

Parameters: Temperature, relative humidity, air pressure, wind direction, wind speed, radiation

WS500-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind, NTC/T, Capacitive/RH, MEMS capacitive/Pressure

Parameters: Temperature, relative humidity, air pressure, wind direction and wind speed

WS401-UMB Smart Weather Sensor



Technology: NTC/T, Capacitive/RH, Tipping bucket/Precipitation, MEMS capacitive/Pressure

Parameters:Temperature, relative humidity, precipitation and air pressure

WS400-UMB Smart Weather Sensor



Technology: NTC/T, Capacitive/RH, MEMS capacitive/Pressure, 24 GHz Doppler radar/Precipitation

Parameters:Temperature, relative humidity, precipitation intensity, precipitation type, precipitation quantity and air pressure

WMO STANDARD

WS310-UMB Smart Weather Sensor



Technology: Temperature, relative humidity, air pressure, radiation

Parameters:Temperature, relative humidity, precipitation intensity, precipitation type, precipitation quantity and air pressure

WMO STANDARD

WS302-UMB Smart Weather Sensor



Technology: NTC/T, Capacitive/RH, MEMS capacitive/Pressure, Lufft Pyranometer/Radiation

Parameters:Temperature, relative humidity, air pressure, radiation

WS301-UMB Smart Weather Sensor



Technology: NTC/T, Capacitive/RH, MEMS capacitive/Pressure, Kipp&Zonen Pyranometer/Radiation

Parameters:Temperature, relative humidity, air pressure, radiation

WMO STANDARD

WS300-UMB Smart Weather Sensor



Technology: NTC/T, Capacitive/RH, MEMS capacitive/Pressure

Parameters:Temperature, relative humidity, air pressure

WMO STANDARD

WS200-UMB Smart Weather Sensor



Technology: Ultrasonic/Wind

Parameters:Wind direction and speed

WMO STANDARD

ANEMOMETERS

VENTUS-X-UMB Ultrasonic Wind Sensor - Extended Heating



Technology: Ultrasonic

Parameters: Wind speed, wind direction, virtual temperature, barometric pressure

VENTUS-UMB Ultrasonic Wind Sensor with heater



Technology: Ultrasonic

Parameters: Wind speed, wind direction, virtual temperature, barometric pressure

V200A Ultrasonic Wind Sensor



Technology: Ultrasonic

Parameters: Wind speed, wind direction, virtual temperature, barometric pressure

PRECIPITATION SENSORS

WS100 Radar Precipitation Sensor / Smart Disdrometer



Technology: 24GHz Doppler radar

Parameters: Rain/precipitation quantity, rain/precipitation type (Rain, snow, sleet, freezing rain, hail)

Not displayed here-WTB100

SNOW DEPTH SENSOR

Snow Depth Sensor SHM31



Technology: Opto-electronic measuring technique (rangefinder; laser distance sensor) with eye-safe laser.

Parameters: Snow depth

VISIBILITY SENSORS

Visibility Sensor VS2k-UMB



Technology: 45° forward light scattering

Parameters: Visibility (measuring range 10 ... 2000 m, resolution 1 m)

Not displayed here-VS20k

CLOUD HEIGHT- LIDAR

Ceilometer CHM 15k “NIMBUS”



Technology: Optical (LIDAR)

Parameters: Aerosol backscatter profile, cloud base height, cloud penetration depth, aerosol layer height, cloud cover, vertical visibility, Sky Condition Index

Not displayed here- CHM 8k

ROAD & RUNWAY WEATHER

NIRS31-UMB



Technology: Optical spectroscopic principle, lamp transmitter, pyrometer

Parameters: Surface temperature, Water film height, Ice layer thickness, Ice percentage Freezing temperature, Road condition (dry, damp, wet, snow, ice), Friction, Snow height Saline concentration

Not displayed here - MARWIS (Mobile Advanced Road Weather Information Sensor)

Canadian Orders



For detailed specs, request custom quotes, lead times, on any of Luffts’ products you can reach your authorized value-added resellers at;

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