

CORPORATE BROCHURE

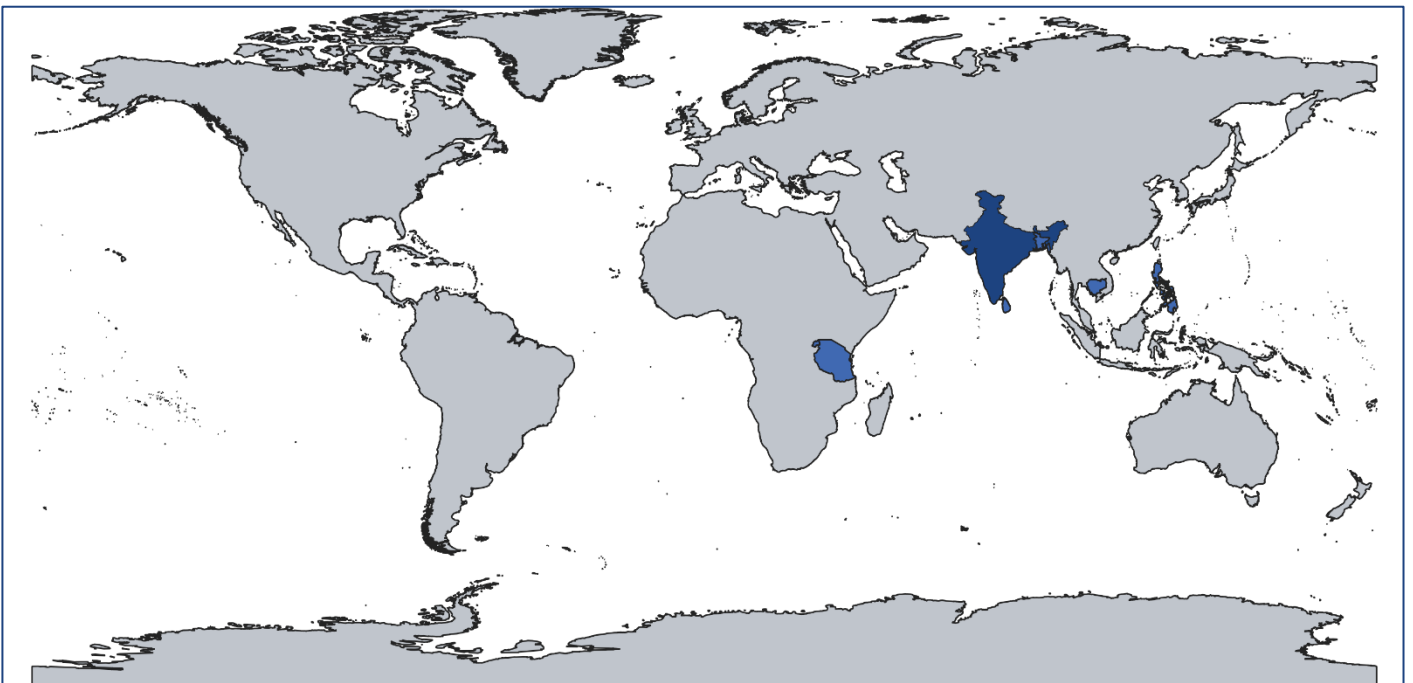
INGEN: Smart Solutions for Secure Tomorrow



About the Organisation

Ingen Technologies Private Limited, founded in the year 2008 as a subsidiary of Weather Risk Management Services Private Limited, is a leading weather service provider in India with a supply of more than 15000 Automatic Weather Stations (AWSs) & Automatic Rain Gauge Stations (ARGs) across the globe and more than 10000 installations pan India.

Ingen leverages indigenous & locally-manufactured technology, and its strong inhouse team of meteorologists, remote sensing experts, and IoT specialists to provide weather data & weather forecast services to various corporations and government organizations in insurance, energy, and agriculture sectors.



Global Footprint

- **4000+ Automatic Rain Gauges:** Bangladesh (Supply)
- **100+ Automatic Weather Stations:** Tanzania, Rwanda, Philippines, Cambodia, & Sri Lanka (Supply)
- **10000+ AWS/ARGs:** Pan India (Manufacturing & Installation);

Long-term Client Engagement



- **Weather Data Services**
 - 2,500+ sites since 2014
 - Indian State governments: Rajasthan, Uttar Pradesh, Himanchal Pradesh, Uttarakhand etc.
 - Insurance Companies: AIC, HDFC, ICICI, RGIC, SBIGI etc.
- **Weather Data & Forecasting Services**
Adani Group (formerly, Reliance Infra) since 2016
BSES, REC Group
- **Weather Data & Advisory Services**
WWF-India, GiZ, GGRC, Bayer
- **AWS Sale & Maintenance**
Bayer Bioscience since 2011
Institutions like IIT Kanpur, IIT Delhi, IIT Bombay, IIT Bhilai
- **AWS/ARG Supply & Maintenance [Govt. Orders]**
70 ARGs to Punjab Hydrology Department for 2014-2020 (as OEM)
1300+ ARGs to Bihar Planning & Development Dept (work in-progress)
3000+ ARGs to Karnataka State Natural Disaster Monitoring Center Dept (work in-progress)
430 AWS to Andhra Pradesh State Development Planning Society (work in-progress)
29 AWS to Bihar Soil Conservation Dept (work in-progress)

Why Us

1. Indigenous Manufacturer of Automatic Weather Stations

We, at Ingen Technologies, take great pride in offering indigenously-manufactured Automatic Weather Stations and other IoT devices, customized for your specific requirements.

- End-to-end Management of AWS:
- Manufacturing ⚙ Supply ⚙ Installation ⚙ Operation
- Manufacturing Capacity of 500 AWSs per month
- Customized Design with state-of-the-art technology
- Continuous Hardware Updation

2. World Standard IoT Sensors

Our sensors conform to the WMO (World Meteorological Organization) standards and are IMD (India Meteorological Department) certified in order to disseminate accurate weather data.

- IMD Certifications: Humidity Sensor, Temperature Sensor, Tipping Bucket Rain Gauge, Silicon Pyranometer, Ultrasonic Wind Sensor

3. Top-notch In-house Team

We leverage our strong inhouse team of meteorologists, remote sensing experts, and IoT specialists to provide weather data & weather forecast services.

- Inhouse R&D, Hardware, & Software teams linked with IIT Kanpur, ST Microelectronics, etc.
- Meteorologists & Remote Sensing Experts for improved weather data & forecast services

4. Support & Services

Our trained technicians are stationed in most of the Indian states to attend to your requirements at shortest possible time.

- Maintenance: Every 3 months
- Sensor Calibration: Twice a year
- Prioritized Location Visits: Every month
- Component Replacement: Within specified life period
- Error Resolution: Within 72 hours of reporting

5. Focus on Data Quality

- Data is being monitored round the clock
- Advanced algorithms & integrity checks are applied on the data
- Statistical analysis tools capture parameter drifts
- Automated alerts are generated in-case of data failure

6. Data Quality Checks

- Syntactic Checks: Data should be as per the sensor resolution and range
- Climate-range Checks: Datum must be consistent with month-wise climatology
- Time-series Consistency: Plausible difference between two successive values – based on meteorological heuristics
- Spatial Consistency: Plausible difference between two nearby stations – based on variations – based on meteorological heuristics
- Device Consistency: Comparison with nearest IMD and state Govt weather stations to avoid systematic errors

Sensor Management System								
Data Filter		Data Fields		Change Filters and choose Display Columns			User Mode: Moderator	
Active Filters		Sensor Report		Visit Form		Visit Report		Rent Form
Location		Rent Report		Sensor MIS Form		Sensor MIS Report		
22								
Date	LocationId	Location	Block	District	TotalCount	LastVidTempCount	LastVidRainCount	LastVidHumidityCount
2013-07-10	6241	Bahadurpur		Alwar	131	130	131	131
2013-07-10	13928	Bahala		Alwar	138	138	138	138
2013-07-10	13912	Bhnokar		Alwar	114	114	114	114
2013-07-10	13979	Bichgawan		Alwar	137	136	137	137
2013-07-10	13929	Bhimrao		Alwar	Rajasthan	137	137	137
2013-07-10	6245	Kathumar		Alwar	Rajasthan	131	130	131
2013-07-10	13976	Kherthal		Alwar	Rajasthan	103	102	103
2013-07-10	13909	KHOH		Alwar	Rajasthan	144	143	144
2013-07-10	14014	kutubpur		Alwar	Rajasthan	95	94	95
2013-07-10	14015	Machrouli		Alwar	Rajasthan	135	134	135
2013-07-10	13913	Moliya		Alwar	Rajasthan	138	138	138

Our USP: High Quality Equipment at Affordable Prices

Ingen's Automated Weather Stations provide continuous automatic observations for weather parameters like air temperature, relative humidity, dew point, precipitation, sunlight intensity, short- and long-wave solar radiation, wind speed & direction, barometric pressure, soil moisture, soil temperature etc. These parameters are the most crucial for weather monitoring.

The INGEN AWS comes in various shapes and sizes. The various components can be installed and erected in a modular format. The base structure is a variable size (from 2 m to 10 m) tripod or on a unipole made of galvanized iron / stainless steel to which various sensors are attached. The support fixtures and frames are made as per client's requirements.

Ingen sensing mechanisms use a wide variety of industry accepted technologies. The main measurement and sensing systems are mentioned below:

- Air Temperature Sensor
- Relative Humidity Sensor
- Precipitation Sensor
- Wind Speed & Direction Sensor
- Solar Radiation
- Barometric Pressure
- Soil Moisture
- Soil Temperature

We have taken huge strides in our endeavor to become lowest cost producer of Automated Weather Stations in India. We have successfully bid for medium-sized installation project of various state governments and institutions. We are also expanding our outreach to segments beyond agriculture – particularly Power and Construction Sectors. We have already proven our capabilities to rigorous demands of the government tenders. With augmenting of capacities, we intend to participate in large government and private sector tenders in India and overseas.

IMD Certification

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Bangalore, Pune 411 005

ISO 9001:2008 CERTIFIED

INDIA METEOROLOGICAL DEPARTMENT
Office of the Deputy Director General of Meteorology
(Surface Instruments)
Bangalore, Pune 411 005

Laboratory Test Report

1. Name of the instrument : TEMPERATURE SENSOR
2. Identification No. : T.N.14
3. Make : INGEN
4. Calibrated for : M/s Ingen Technologies Pvt. Ltd., Kanpur

Calibration:

Temperature Range : 0°C to +50°C		
Standard Temperature (°C)	Indicated Temperature (°C)	Correction (°C)
40.3	40.1	+0.2
33.4	33.2	+0.2
24.3	24.3	0.0
35.3	35.2	+0.1
46.2	46.3	-0.1

Remarks:
(a) The above TEMPERATURE SENSOR has been calibrated in this office with standard DB thermometer No. 0226, whose calibration is traceable to digital thermometer make Timley, UK, Sensor No. 220472, indicator No. 060917, traceable to NPL, New Delhi standard side certificate No. 12100620/05.01C dated 12-05-2014.
(b) Obtained corrections are as indicated above. Limits of tolerance as specified by this office for temperatures are ±0.2°C.
(c) The indicated temperature values were read on a Data Logger submitted by the firm.

Validity of calibration: ONE YEAR
[Received testing charges Rs. 1380/- (Rupees One thousand two hundred eighty only)]

Calibrated by: *[Signature]*
Date: 10-06-2014

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Laboratory Test Report

1. Name of the instrument : RELATIVE HUMIDITY SENSOR
2. Identification No. : RH-IN-1.5
3. Make : Ingen
4. Calibrated for : M/s Ingen Technologies Pvt. Ltd., Kanpur

Calibration:

Relative Humidity Range : 0% to 100%		
Standard RH (%)	Indicated RH (%)	Correction (%)
14	14	0
39	39	0
55	55	0
74	75	-1
91	91	0

Remarks:
(a) The above RELATIVE HUMIDITY SENSOR has been calibrated in this office with standard DB thermometer No. 0226 and WB thermometer No. 22273, whose calibrations are traceable to digital thermometer make Timley, UK, Sensor No. 220472, indicator No. 060917, traceable to NPL, New Delhi standard side certificate No. 12100620/05.01C dated 12-05-2014.
(b) Obtained corrections are as indicated above. Limits of tolerance as specified by this office for relative humidity are ±5%.
(c) The indicated relative humidity values were read on a Data Logger No. DIN-1.5 submitted by the firm which was solely used as a readout unit.

Validity of calibration: ONE YEAR
[Received testing charges Rs. 1380/- (Rupees One thousand two hundred eighty only)]

Calibrated by: *[Signature]*
Date: 03-07-2012

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Laboratory Test Report

1. Name of the instrument : TIPPING BUCKET RAINGAUGE
2. Identification No. : IN/RG/0095
3. Make : Ingen Technologies Pvt. Ltd., Kanpur.
4. Material of base and collector : Fiberglass Reinforced Plastic
5. Mean diameter of collector rim : 203.2 mm
6. Resolution : 0.25 mm
7. Calibrated for : M/s Ingen Technologies Pvt. Ltd., Kanpur.

Calibration:
The above rainfall sensor has been calibrated in the Surface Instrument Division, Meteorological Office, Pune and the calibration results have been found to be within the tolerance limits. (Overall error is found within ±5% of actual rain.)

Remarks:
During the calibration, the rainfall values were read on the Data Logger submitted by the firm, which was solely used as a readout unit and this certificate is valid only for Tipping Bucket Rain Gauge (TRG).

[Received testing charges Rs. 1695/- (Rupees One thousand six hundred thirty five only)]

Calibrated by: *[Signature]*
Date: 26-04-2014

for Deputy Director General of Meteorology
(Surface Instruments)

Temperature Sensor

Humidity Sensor

Tipping Bucket RainGauge

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Certificate of Test & Calibration

NAME OF THE INSTRUMENT : Silicon Pyranometer
IDENTIFICATION NO. : GR-IN-1-1
MAKE : Ingen Company, Kanpur
CALIBRATION FACTOR : 10.52 $\mu V W^{-1} m^2$
RESISTANCE : 54.95K ohms

PUNE
DATE: 10-05-2012

[Signature]
(R.K. Sharma)
Scientist - E
(Surface Instruments)

Note: The sensor is calibrated against thermoelectric type standard pyranometer whose spectral range is from 0.3 μm to 3.0 μm whereas this sensor is of silicon photodiode type whose spectral range is 0.3 μm to 1.1 μm . Hence the accuracy of the calibration is not guaranteed under all atmospheric conditions.

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Laboratory Test Report

1. Name and type of the instrument : ULTRASONIC WIND SENSOR
2. Identification No. : UW-IN-1
(a) Wind sensor
(b) Calibrator
3. Make : M/s 'GILL', England
4. Calibrated for : M/s Ingen Technologies Pvt. Ltd., Kanpur
5. Calibration range : 0-35 mps
6. Calibration (Wind tunnel test):
(i) Static

S. No.	True speed (mps)	Mean indicated speed (mps)	Corrections (mps)
1	3.3	3.4	-0.1
2	2.3	2.3	-0.1
3	2.3	2.2	+0.1
4	3.4	4.1	-0.7
5	3.4	3.6	-0.2
6	27.4	28.0	-0.6
7	24.7	25.1	-0.4

(ii) Wind direction (Direct tunnel speed at 20 mps)

True Direction	Indicated (°)
N	280
E	100
S	170
W	270

REMARKS:
(a) The above instrument has been calibrated against the standards mentioned in the Instruments Division, Meteorological Office, Pune.
(b) Chemical corrections for anemometer are indicated above (Acceptable limits of tolerance: ±5.140 up to 5.5 mps and ± 2% beyond).
(c) Wind directions indicated by the sensor are found to be within the acceptable limits of tolerance of ±2°.

Validity of calibration: ONE YEAR
[Received testing charges Rs. 1695/- (Rupees One thousand six hundred thirty five only)]

CERTIFICATE
QUALITY MANAGEMENT SYSTEM

This is to certify that the Quality Management System of:

Ingen Technologies Pvt. Ltd.
Regd. Office: 349 'A' Kalyanpur House, Chandel Gate Nankar, ITT Kanpur, Kalyanpur, Kanpur - 208 016 (U.P.), India
Works Address: G-3 Shilpi Centre, ITT Kanpur Campus, Kanpur - 208 016 (U.P.), India

Has been assessed and found to comply with requirements of:

ISO 9001:2008

The certificate is valid for the following scope of operations:
Design, Development, Fabrication, Testing and Marketing of Electronic Circuits, Wireless Circuits, Sensor Circuits, Micro Processor Circuits, Robotic Equipments, Weather Station, Irrigation Station, Crop Surveillance Systems, Process Monitoring and Control and Related Software Development and Consultancy

Date of Issue and Valid until : 18th May 2012 - 17th May 2015
Certificate Number : TR-Q-96-1056-165

Authorized : *[Signature]* General Manager
Date : 18th May 2012

Surveillance Audit : 17th May 2013, 17th May 2014
The certificate is valid ONLY if the annual surveillance audit is present

TGA-ZM-01-07-00

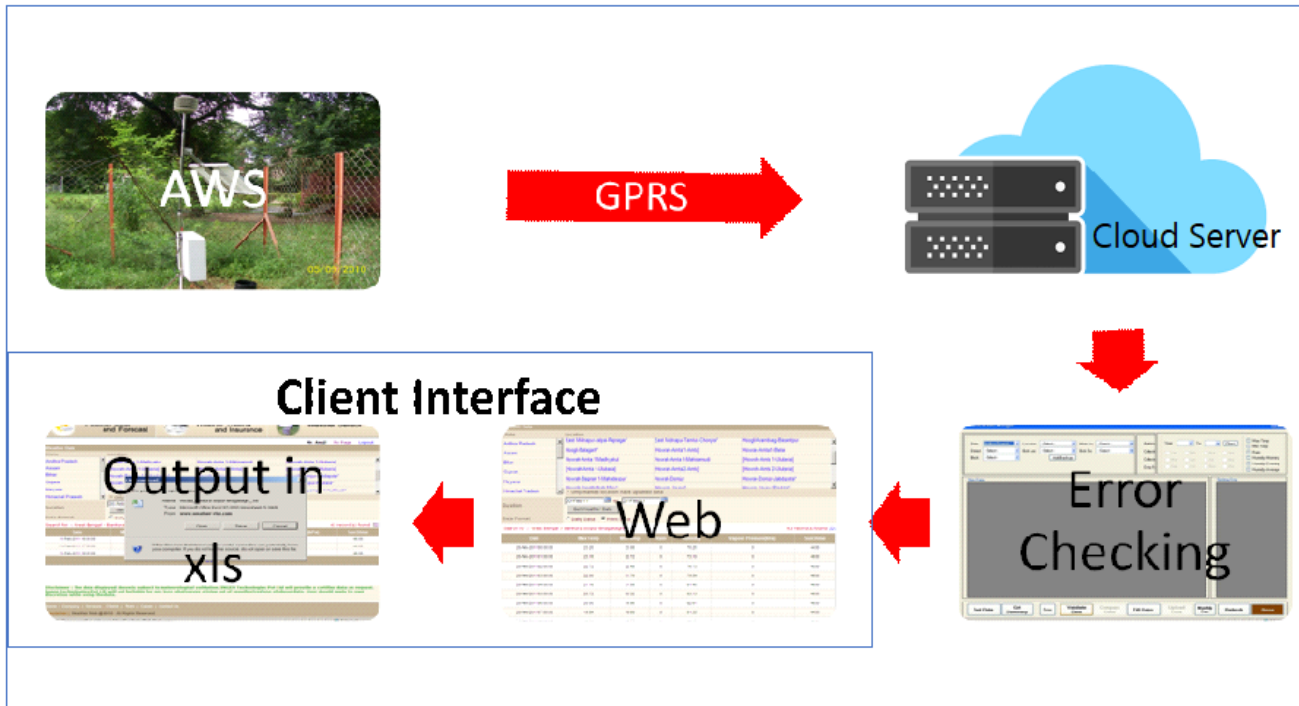
Silicon Pyranometer

Ultrasonic Wind Sensor

ISO 9001:2008

AWS Data Flow Diagram

Data output



Weather Data

Rajasthan

Alwar-Bahadurpur

Alwar-Kathumar

Alwar-Kathumar-Bhnokar

Alwar-Kishangarh-Kherthal

Alwar-Kishangarh-Machrouli

Alwar-Kotkasim-kutubpur

Alwar-Kotkasim-Pur

Alwar-Laxmangarh-Bichgawan

Alwar-Laxmangarh-GovindGarh

Alwar-Laxmangarh-Moliya

Alwar-Rajgarh

Alwar-Rajgarh-KHOH

Alwar-Rajgarh-Rajpurbada

Alwar-Rajgarh-Tehla

Alwar-Ramgarh-Bahala

Duration

08-Jul-13 to 08-Jul-13

Data Format

☐ Daily Data XML

☒ Point Data XML

Get Weather Data

Search for :: Rajasthan > Alwar-Kishangarh-Machrouli

Time : 0.234 sec. 96 record(s) found.

DateTime	MaxTemp	MinTemp	Humidity	Rainfall	Desc
08-Jul-2013 08:00	28.41	28.41	93.93	0	X
08-Jul-2013 08:15	28.96	28.64	91.84	0	X
08-Jul-2013 08:30	29.26	29.26	90.26	0	X
08-Jul-2013 08:45	29.69	29.49	87.75	0	X
08-Jul-2013 09:00	29.95	29.95	86.53	0	X
08-Jul-2013 09:15	30.38	30.1	83.74	0	X
08-Jul-2013 09:30	30.55	30.55	78.96	0	X
08-Jul-2013 09:45	30.58	30.53	77.28	0	X
08-Jul-2013 10:00	30.35	30.35	79.52	0	X
08-Jul-2013 10:15	30.25	30.13	80.86	0	X

1 2 3 4 5 6 7 8 9 10

Technical Specification of AWS Sensors

Air Temperature		RELATIVE Humidity			
Type	: Band gap (Si Diode)	Type	: Solid state Thin Film (CAPACITIVE)		
Make	: Ingen	Make	: Ingen		
Item #	: iTMS101	Item #	: iHMS101		
Range	: -40 to +80°C	Range	: 0 to 100%		
Resolution	: 0.1°C	Resolution:	0.1% RH		
Accuracy	: ± 0.1°C	Accuracy	: +/-2% RH		
Precipitation		Solar radiation			
Type	: TBRG	Type	: Photodiode		
Make	: Ingen	Make	: Ingen		
Item #	: iRMS101	Item #	: iSRMS201		
Output	: Magnetic Reed Switch	Range	: 0 to 2000 Wt/m2		
Range	: Unlimited	Resolution:	1 Wt/m2		
Resolution:	0.5mm or better	Accuracy	: ± 3%		
Accuracy	: ±3% or better				
Wind speed		Wind direction			
Type	: Ultrasonic	Type	: Ultrasonic		
Make	: Ingen	Make	: Ingen		
Item #	: iWMS2011	Item #	: iWMS2011		
Range	: 0 to 80 m/sec	Range	: 0 to 359 Deg		
Sustainability	: Up to 80 m/sec	Resolution	: 1 Deg		
Resolution	: 0.1 m/s	Response Time:	2 Sec		
Accuracy	: +/-0.5 m/s	Accuracy	: +/- 3 Deg		
Threshold	: 0.2 m/s	Threshold	: 0.2 m/s		
Barometric pressure		Soil Temperature	Soil Moisture		
Type	: Solid state Piezo	Type	: Pt100	Type	: FDR
Make	: Ingen	Make	: Ingen	Make	: Ingen
Item #	: iBMS102	Item #	: iSTS102	Item #	: iSMS102
Range	: 600 to 1100 hPa	Range	: -20 to +60°C	Range	: 0 to 100% VWC
Resolution:	0.1 hPa	Resolution:	0.01°C	Resolution:	0.01%VWC
Accuracy	: +/-0.2 hPa	Accuracy	: +/-0.5°C	Accuracy	: +/-3%
Output	: Digital				
Soil Moisture		Soil Temperature / Moisture			
Type	: TDR	Type	: TDR		
Make	: Ingen	Make	: Acclima		
Item #	: iSMS202	Item #	: 310H/305N or better		
Range	: 0 to 100% VWC	Temp Range	: -40 to +60°C		
Resolution:	0.01%VWC	Temp Resolution:	0.1°C		
Accuracy	: +/-3%	Temp Accuracy	: +/-0.5°C		
		Moist Range	: 0 to 100% VWC		
		Moist Resolution:	0.1%VWC		
		Moist Accuracy	: +/-3%		

iNGEN Integrated Data logger

Processor:

- Dedicated 32 kHz oscillator for RTC with calibration
 - Ultra-Low power
 - Communication Interface: timers, ADC, SPIs, I2Cs and USARTs
 - 16-bit, 1 μ s A/D converter (12-channels, +/- 1 LSB), Conversion range: 0 to 3.6 V
 - 10 digital/Analog channels
 - System Clock – Stability 1 ppm per year, real time clock synchronized with GPS
 - Watchdog timer available
 - Sample intervals – configurable from 1 sec to 24 hours
 - 16x4 alphanumeric LCD
 - System Reset option available
-

Memory: 1GB, extendable upto 64GB.

External Power: 12V to 24V DC (48 V maximum)

Power Consumption: < 50mA

Basic Communication Interface: RS232, RS485

Main Power option: 220V AC with suitable AC-DC adapter

Operating Temperature: -40 °C to +60 °C

Operating Humidity range: 0% to 100%



iNGEN Communication Unit (IDCU) for AWS iDAS101

Weather Station sends the summarized weather data at programmable intervals of 1 minute to several hours. The messages are sent automatically via GPRS to the central server. In case of non-availability of GPRS signal, data is sent to the central server through SMS. In the extreme case of no mobile signal, data is stored in the internal memory unit having a capacity of 1GB sufficient to store minimum 12 month weather data.

Communication: We guarantee for GSM/GPRS modules with:

- Proper IMEI number
- Fully IPR-paid for use of intellectual Property in using GSM/GPRS specs or patented.

The IDCU is able to intelligently prioritize data communication based on:

Priority of data transfer: For instance, ability to configure priority of communication for sensor data / alert / even log data

Network Availability: Auto-switch between SMS/GPRS during long periods of inactivity of a specific channel

Optimal Cost: Ability to configure size of data packet & connectivity options based on data usage plan offered by Network Operator

Data transmission through GPRS

- The IDCU is able to send the weather station data in a compressed format to the central server using secured HTTPS protocol.
- The data transmission interval will be configurable over the air and any new transmissions will happen as per the newly configured interval.
- Any failure in GPRS data transmission to the Primary IP will automatically attempt data transfer to the Secondary IP. Further failure will be intimated to the data server through the SMS alert.
- During a signal loss condition, the IDCU will keep trying for the transmission and resume the transmission once the GPRS network is available.
- The IDCU will allow the remote access from the base station to know the status of sensors and check log files through a software solution as required and shall have selectable options.

Optional Periodic Reporting via SMS (in the absence of GPRS coverage)

- The IDCU shall be able to send weather station information to the data server through SMS periodically.
- The reported SMS will denote the unit id of the IDCU and the recorded data along with the other events or alerts (battery voltage, signal strength) noticed by the system.
- The IDCU will support a minimum reporting interval of 1seconds.
- The periodic interval will be configurable over the air (OTA) from the authorized base station.
- In case of GSM network unavailability the IDCU will store the messages internally and send the reporting message after the signal resumes.

Power Supply

The weather station is a standalone wireless unit powered by Solar Panel (10W to 75 Wt) charged Battery of 3.7V, 20AH. Li-cell battery is preferred to ensure consistent power supply. Sensor can work for 30-35 days in extremely rainy weather with fully charged batteries.

Charged through appropriate Solar Panel or AC supply. Compatible with solar panels which have rated capacity of 10W - 75 W, Open Circuit Voltage – 21 V, Short circuit current 0.5A -5.0 A, compatible with 3.7V- 10AH to 40AH Li-cell battery.

POWER REQUIREMENTS	PHYSICAL SPECIFICATIONS
Battery 20Ah/3.7V Power consumption <100mA/3.7V Battery can be charged through 230V AC (with suitable adaptor) Or a 10W-75 W solar panel.	Materials: Stainless steel, Plastic, Anodized Aluminum, Iron Height: 1.5 m to 10 m depending on requirement Enclosure: 2* 2 sq m to 5*5 sq m Weight : approx 7 kg – 20 Kg

Application Software

Portal Software

Portal Software aggregates, manages, analyzes, organizes and distributes weather information into single system tailored to the preferences of the different users groups (farmers, agri officers, insurance companies, administrator etc).

It broadly does the following:

- Data acquisition (from IDCU)
- Data management & display (real time, history and forecast)
- Administrator (manage the web content based on the role based authorization model)
- Support section (statistics, SMS/ email alerts, data export etc)
- Resources – high speed networking, high performance computing and large data Storage

Clientele



INGEN Technologies Private Limited

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