



control solutions

TERACOM

Efficient Solutions for Remote Monitoring and Control



We Are Teracom

We've been building electronics since 1993.
Beyond products, we focus on ideas, trust, and lasting partnerships.

Passion

We care deeply about what we create.
Every product carries not only our know-how but also a part of who we are.

Innovation

We like to stay sharp.
New technology inspires us, and we apply it where it truly matters.

People

We believe great things happen when people listen to each other.
Collaboration powers everything we do.



Products for Remote Monitoring and Control



Ethernet Modules



Cellular Modules













Sensors and Detectors









Software, Apps and Tools

Ethernet Modules – I/O Peripheral







Main Features		Analog In	Digital In	Inputs Isolation	Relay Out	PWM Out	Analog Out	1-Wire Interface	MB RTU Interface	Ethernet
TCW122B-CM		2 20mA/10V/60V	2 On/Off/Counter	×	2	×	×	✓	×	10/100
TCW122B-WD		2 20mA/10V/60V	2 On/Off/Counter	×	2	×	×	✓	×	10/100
TCW122B-RR		×	2 On/Off/Counter	×	2	×	×	×	×	10/100
TCW181B-CM		×	1 On/Off/Counter	×	8	×	×	×	×	10/100
TCW210-TH		×	×	×	×	×	×	✓	✓	10/100
TCW220		2 20mA/10V/60V	2 On/Off/Counter	×	2	×	×	✓	×	10/100
TCW241		4 20mA/10V/60V	4 On/Off/Counter	×	4	×	×	✓	×	10/100
TCW280		×	×	×	2	4	2 20mA/5V/10V	×	×	10/100
TCW242		4 20mA/10V/60V	4 On/Off/Counter	×	4	×	×	×	✓	10/100
TCW260		6 20mA/10V/60V	4 On/Off/Counter	✓	×	×	×	×	✓	10/100

Ethernet Modules – Functionality







Main Features		Data Logger	MQTT 3.1.1	HTTP API	HTTP POST	MB TCP/IP	SMTP	SNMP	NTP	DynDNS	ICMP Watchdog	Digital I/O Mirroring	Custom Functions	Schedule Tasks	Energy Monitoring
TCW122B-CM		✗	✗	✓	✗	✗	✓ TLS/STARTTLS	v1/v2/v3	✗	✗	✗	✗	✗	✗	✗
TCW122B-WD		✗	✗	✗	✗	✗	✗	v1/v2/v3	✗	✗	✓	✗	✗	✗	✗
TCW122B-RR		✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗
TCW181B-CM		✗	✗	✓	✗	✗	✓ TLS/STARTTLS	v1/v2/v3	✗	✗	✗	✗	✗	✗	✗
TCW210-TH		✓	✗	✓	✓	✓	TLS/STARTTLS	v1/v2/v3	✓	✓	✗	✗	✗	✗	✗
TCW220		✓	✗	✓	✓	✓	TLS/STARTTLS	v1/v2/v3	✓	✓	✗	✗	✗	✗	✗
TCW241		✗	✗	✓	✓	✓	TLS/STARTTLS	v1/v2/v3	✓	✓	✗	✗	✓	✓	✗
TCW280		✗	✗	✓	✓	✓	TLS/STARTTLS	v1/v2/v3	✓	✓	✗	✗	✗	✓	✗
TCW242		✓	✓	✓	✓	✓	TLS/STARTTLS	v1/v2/v3	✓	✓	✓	✗	✓	✓	✗
TCW260		✓	✓	✓	✓	✓	TLS/STARTTLS	v1/v2/v3	✓	✓	✗	✗	✗	✗	✓

Cellular Modules – I/O Peripheral

Main Features

	Analog In	Digital In	Inputs Isolation	Relay Out	PWM Out	Analog Out	1-Wire Interface	MB RTU Interface	Cellular Connectivity
TCG120 (NRND) 	2 20mA/10V/60V	2 On/Off/Counter	✗	2	✗	✗	✓	✗	2G/3G/4G
TCG140 (NRND) 	4 20mA/10V/60V	2 On/Off/Counter	✗	4	✗	✗	✓	✓	2G/3G/4G
TCG120-4E hw2 	2 20mA/10V/60V	2 On/Off/Counter	✗	2	✗	✗	✓	✗	2G/3G/4G
TCG120-4G hw2 	2 20mA/10V/60V	2 On/Off/Counter	✗	2	✗	✗	✓	✗	2G/3G/4G
TCG140-4E hw2 	4 20mA/10V/60V	2 On/Off/Counter	✗	4	✗	✗	✓	✓	2G/3G/4G
TCG140-4G hw2 	4 20mA/10V/60V	2 On/Off/Counter	✗	4	✗	✗	✓	✓	2G/3G/4G

Cellular Modules – Functionality

Main Features		Data Logger	MQTT 3.1.1	HTTP API	HTTP POST	SMS Commands	SMS API	SMS Alerts	SMTP	Email Alerts	GSM Geolocation
TCG120 (NRND)		✗	✗	✓	✓	✓	✗	✓	TLS/STARTTLS	✓	✓
TCG140 (NRND)		✓	✗	✓	✓	✓	✗	✓	TLS/STARTTLS	✓	✓
TCG120-4E hw2		✗	✓	✓	✓	✓	✓	✓	TLS/STARTTLS	✓	✓
TCG120-4G hw2		✗	✓	✓	✓	✓	✓	✓	TLS/STARTTLS	✓	✓
TCG140-4E hw2		✓	✓	✓	✓	✓	✓	✓	TLS/STARTTLS	✓	✓
TCG140-4G hw2		✓	✓	✓	✓	✓	✓	✓	TLS/STARTTLS	✓	✓

Temperature, Humidity, and CO₂ Sensors

Main Features	Temperature	Measuring T Range	Humidity	Measuring H Range	CO ₂	CO ₂ Range	IP	1-Wire Interface	MB RTU Interface
TST100	✓	-40 to +85 °C	✗		✗		IP65	✓	✗
TST100S	✓	-40 to +85 °C	✗		✗		IP65	✓	✗
TST103	✓	-40 to +85 °C	✗		✗		IP20	✓	✗
TST200	✓	-200 to +850 °C	✗		✗		IP20	✓	✗
TST300	✓	-20 to +60 °C	✗		✗		IP20	✗	✓
TST320	✓	-200 to +1700 °C	✗		✗		IP00	✗	✓
TSH202	✓	-20 to +60 °C	✓	10 to 90 %RH	✗		IP20	✓	✗
TSH202B	✓	-20 to +60 °C	✓	10 to 90 %RH	✗		IP20	✓	✗
TSH206	✓	-20 to +60 °C	✓	10 to 90 %RH	✗		IP20	✓	✗
TSH230	✓	-20 to +60 °C	✓	10 to 90 %RH	✗		IP54	✓	✗
TSH300	✓	-20 to +60 °C	✓	5 to 95 %RH	✗		IP20	✗	✓
TSH330	✓	-20 to +60 °C	✓	10 to 90 %RH	✗		IP20	✗	✓
TSM400-1-TH	✓	-20 to +60 °C	✓	10 to 90 %RH	✗		IP20	✓	✗
TSM400-4-TH	✓	-20 to +60 °C	✓	10 to 90 %RH	✗		IP20	✗	✓
TSM400-4-CPTH	✓	-20 to +60 °C	✓	10 to 90 %RH	✓	450 to 5000 ppm	IP20	✗	✓
TSM400-4-CP	✗		✗		✓	450 to 5000 ppm	IP20	✗	✓
TSM400-1-CP	✗		✗		✓	450 to 5000 ppm	IP20	✓	✗

Current, Voltage and Current Loop Sensors

Main Features	Current	Current Range	Voltage	Voltage Range	Current Loop	Current Loop Range	Number of Inputs	ADC Resolution	IP	Isolation	1-Wire Interface	MB RTU Interface
TSC201	✓	0.1 to 10 A	✗		✗		1	16-bit	IP40	1500 Vrms working	✓	✗
TSA200	✗		✗		✓	0 to 20 mA	1	10-bit	IP30	1000 VDC	✓	✗
TSV200-60i	✗		✓	0 to 60 VDC	✗		1	10-bit	IP30	1000 VDC	✗	✓
TSA202	✗		✓	0 to 10 VDC	✓	0 to 20 mA	2	16-bit	IP20	1000 VDC	✓	✗
TSA202-60	✗		✓	0 to 60 VDC	✗		2	16-bit	IP20	1000 VDC	✓	✗
TSV300	✗		✓	0 to 264 VAC 0 to ±370 VDC	✗		4	24-bit	IP40	1500 Vrms working	✗	✓

Digital I/O

Main Features	Type	Numbers of I/O	Isolation	Fail-Safe Logic	Counter Mode	Non-Volatile Memory	IP	1-Wire Interface	MB RTU Interface
TDO340	Digital output	4	1000 VDC	✓	✗	✓	IP40	✗	✓
TDI340	Digital input	4	1000 VDC	✗	✓	✓	IP40	✗	✓

Barometric Pressure and Light Intensity Sensors

Main Features	Barometric Pressure	Barometric Pressure Range	Ambient Light Intensity	Light Intensity Range	IP	1-Wire Interface	MB RTU Interface
TSP200	✓	300 to 1100 hPa	✗		IP30	✓	✗
TSL200	✗		✓	0 to 83000 lux	IP30	✓	✗

Detectors

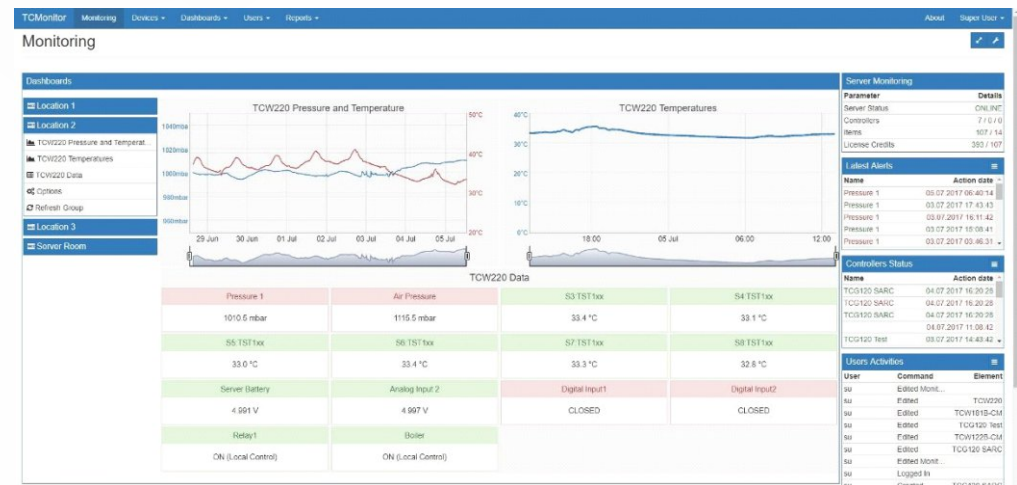
Main Features	Smoke	Door/Window Opening	AC Voltage	IP	Relay Output	Open Collector
TSS8030R	✓	✗	✗	IP30	✓	✗
TSD800	✗	✓	✗	IP65	✓	✗
TSV101	✗	✗	✓	IP30	✗	✓

Software and Apps

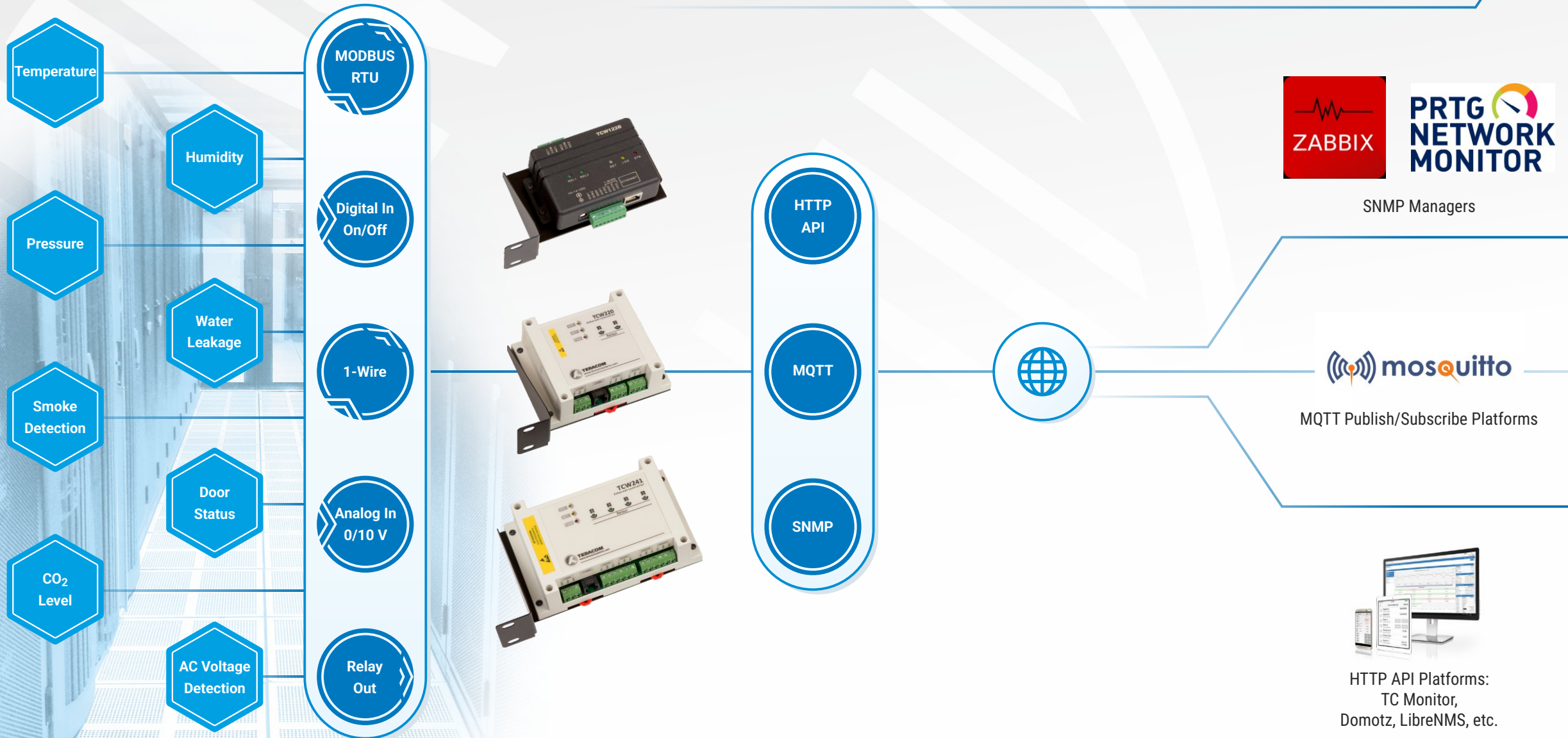
Main features	Windows	Android	iOS	Free Version	Paid Version
TC Monitor	✓	✗	✗	✓	✓
TCW Control	✗	✓	✓	✓	✗
TCW Discoverer	✓	✗	✓	✓	✗

TC Monitor – Key Functionalities

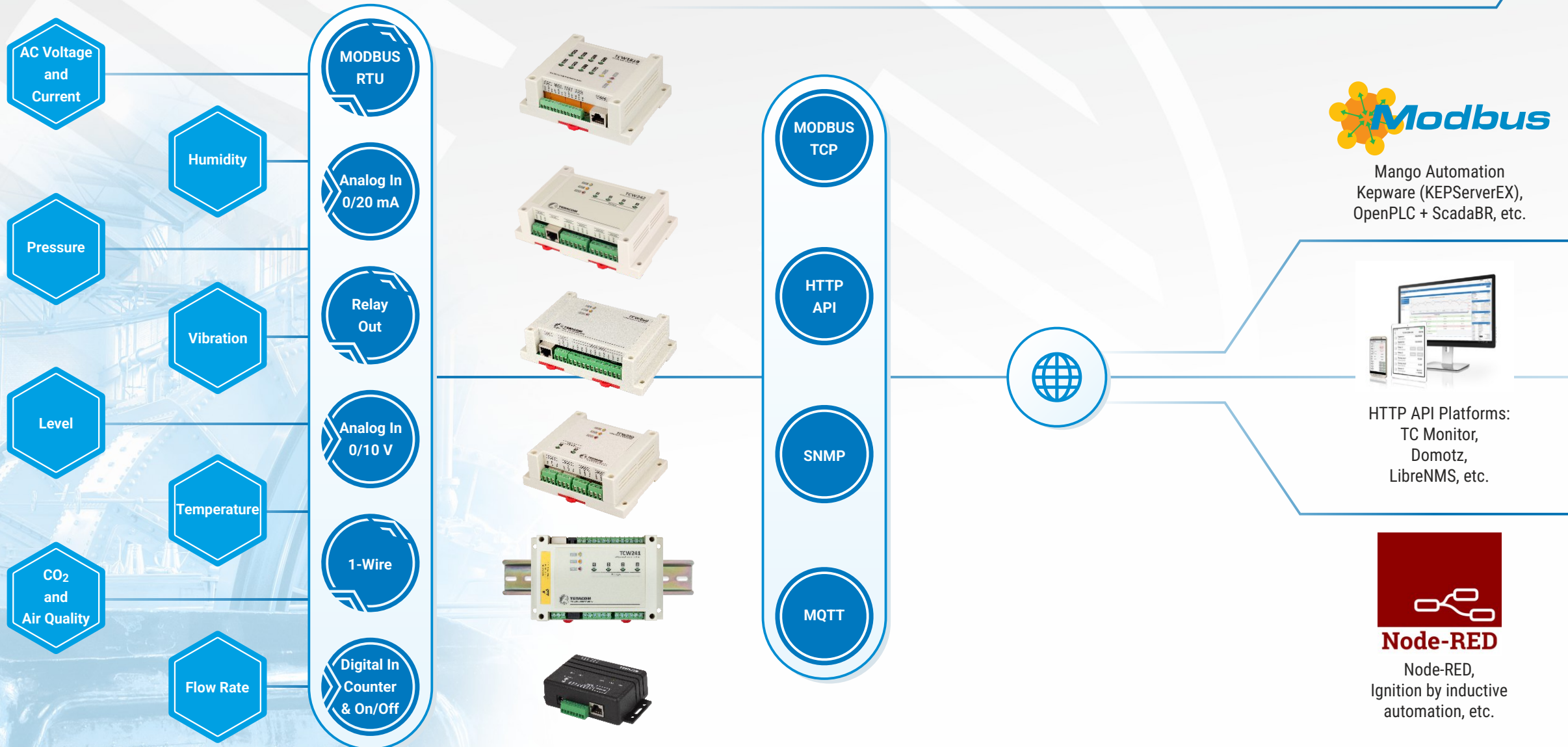
- Web interface for straightforward system configuration and control.
- Dashboards with charts and data for clear visualization.
- Alarm notifications.
- Remote monitoring of controllers in “Client” mode.
- Ability to send commands to controllers in both “Server” and “Client” mode.
- Detailed user access rights management to define who can view or change what.
- User activity log for traceability and auditing.



Server Room Monitoring



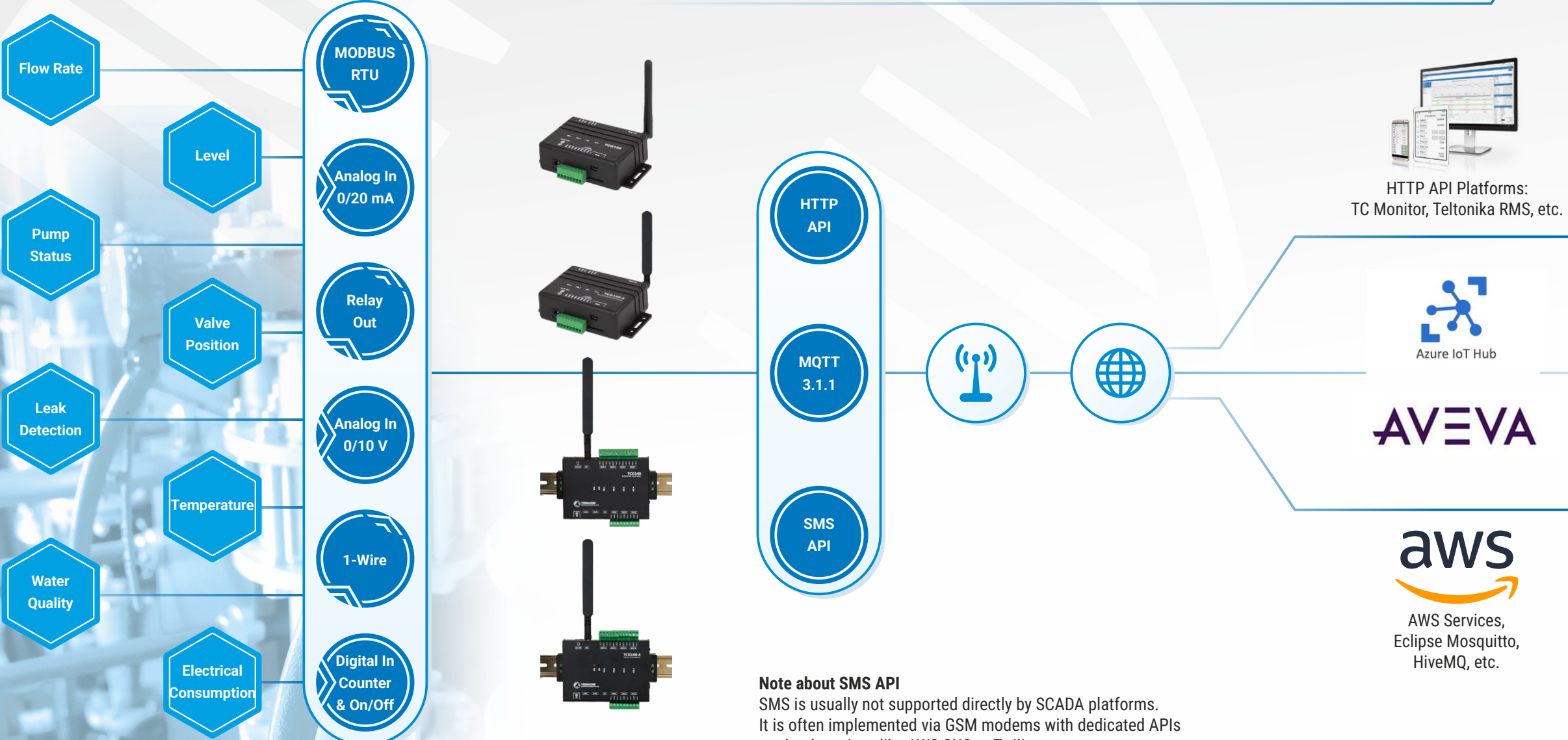
Factory Automation



Factory Automation – Digital I/O Mirroring

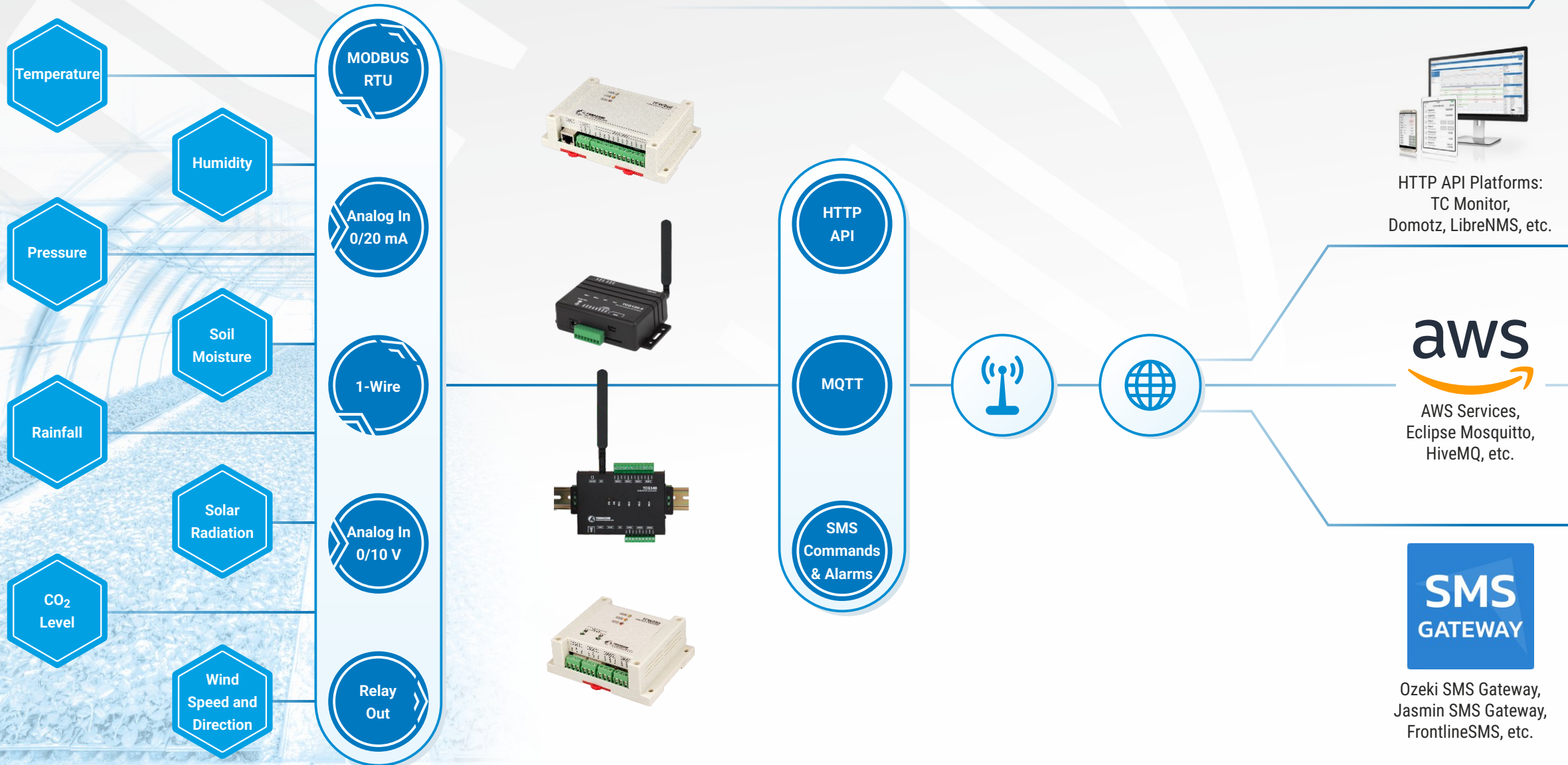


Water Pumping Station Monitoring and Control

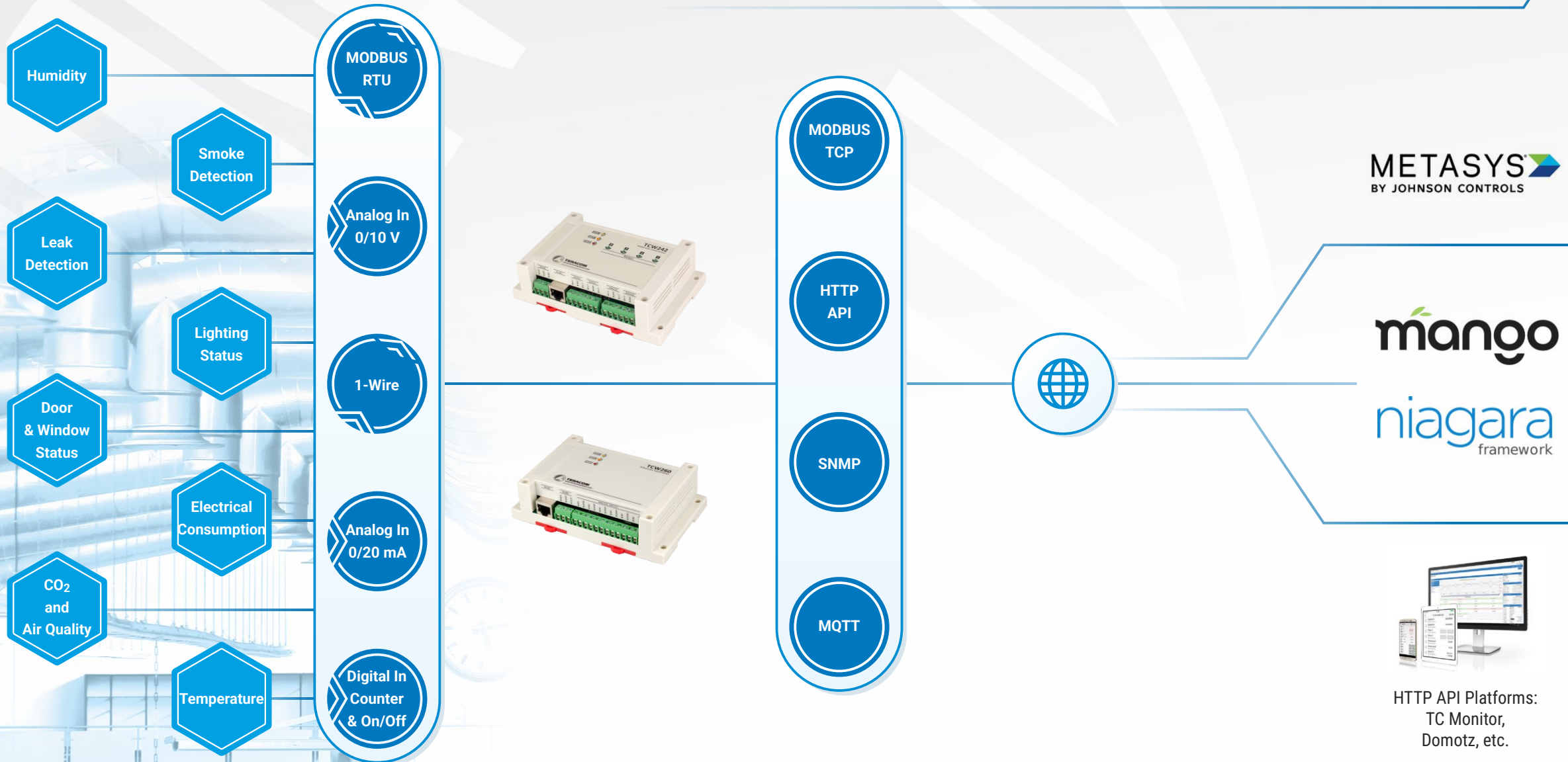


Note about SMS API
SMS is usually not supported directly by SCADA platforms. It is often implemented via GSM modems with dedicated APIs or cloud services like AWS SNS or Twilio.

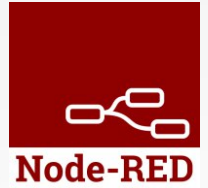
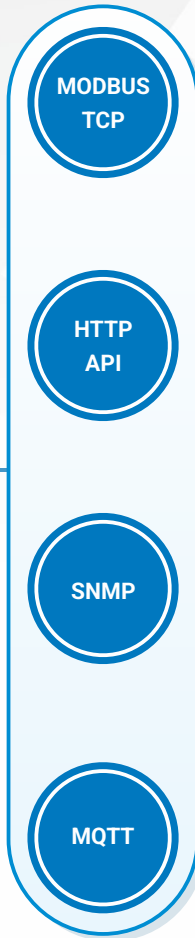
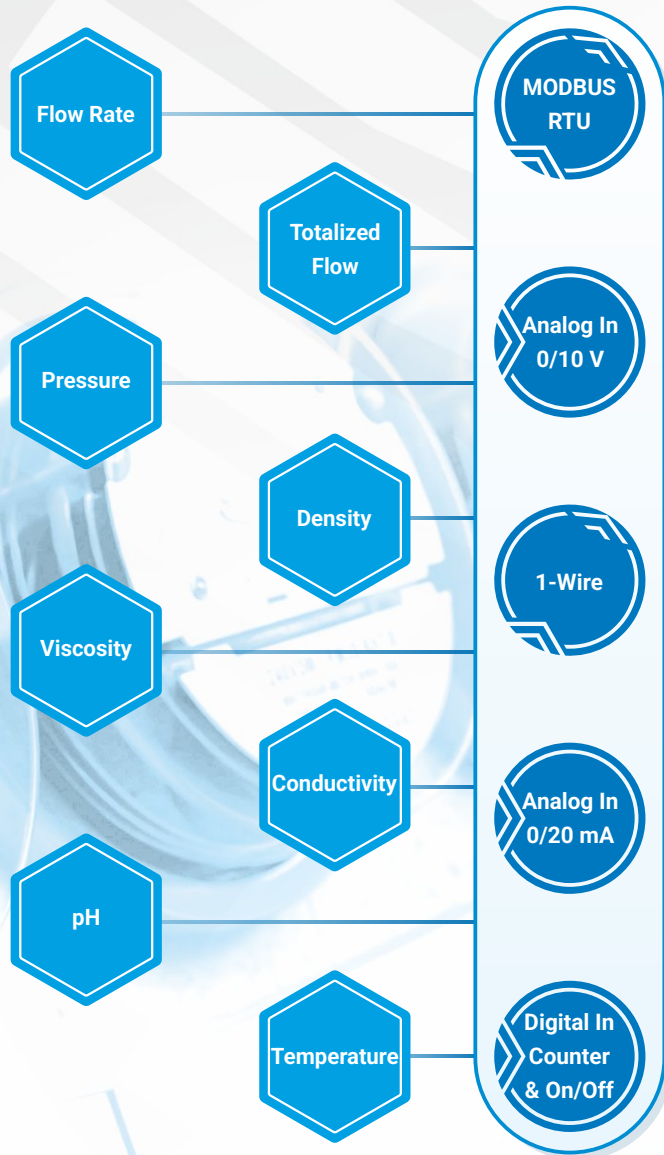
Smart Agriculture / Smart Farming



Smart Building Monitoring



Flow Monitoring



Node-RED,
Ignition by inductive automation, etc.

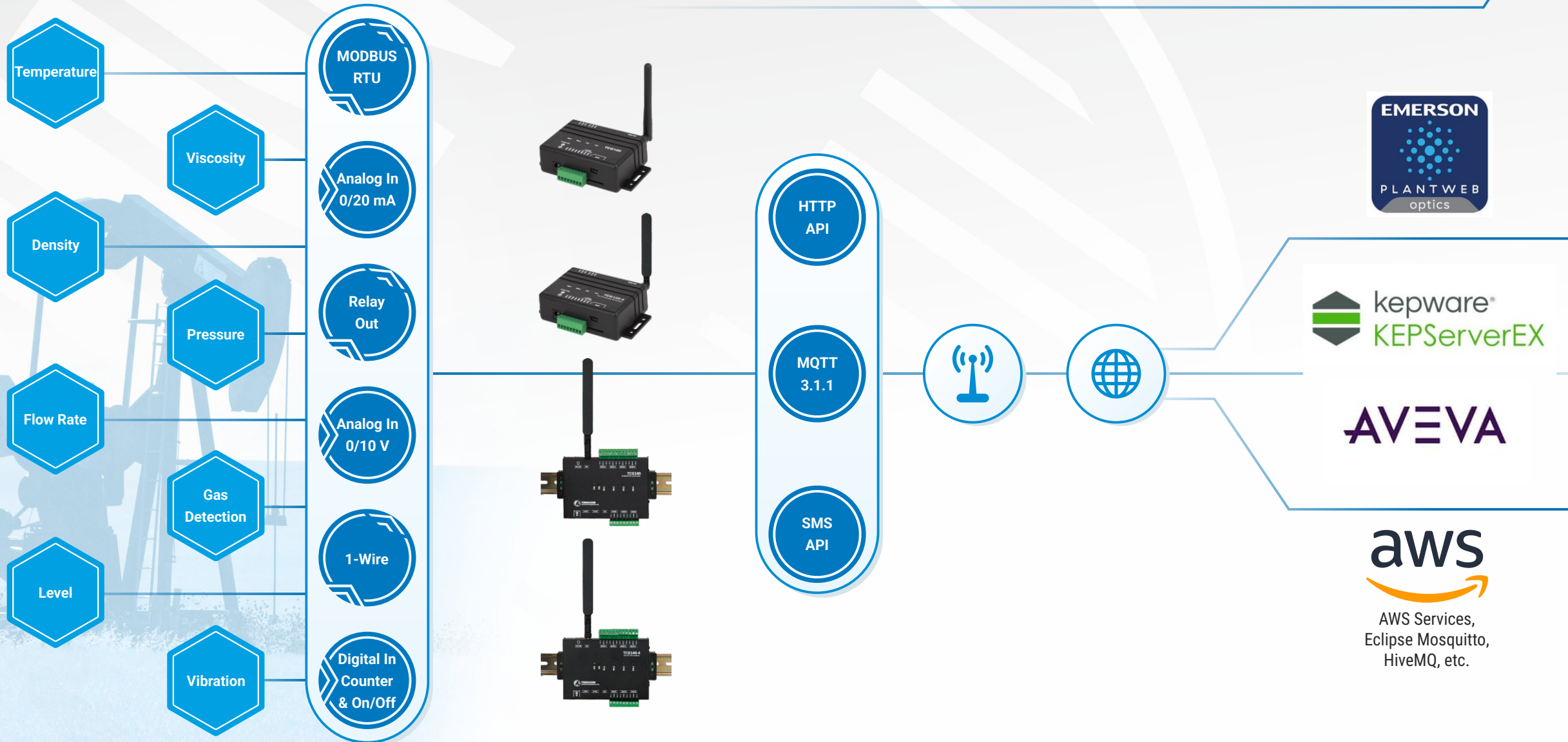


Mango Automation
Kepware (KEPServerEX),
OpenPLC + ScadaBR, etc.



HTTP API Platforms:
TC Monitor,
Domotz,
LibreNMS, etc.

Oil and Gas Monitoring



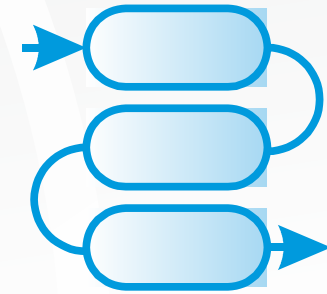
Why Teracom?



Success loves **SPEED!**
We're not a big corporation -
and that's our strength.
We keep things fast and simple.
You'll hear back from us
within 24 hours.
Always.



We stand behind our **QUALITY.**
With solid tech
and a tightly managed
production process,
we offer a 3-year warranty -
not as a slogan,
but because it works.



FLEXIBILITY is built in.
R&D, manufacturing,
and sales - all under one roof.
That means we can adapt quickly
and shape the solution
around you, not the
other way around.



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