

WIRELESS SYSTEM DUOS

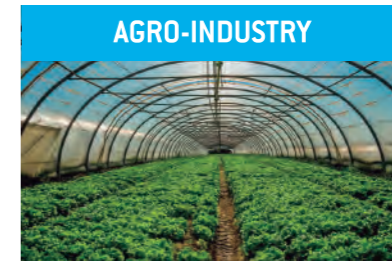
An accurate wireless measuring system for monitoring applications, automation and centralization of temperature, humidity or CO₂ measurements.

- Up to 4 Km communication distance (LoS) with 128-bit AES encryption;
- Multi-hop mesh network with self-forming, self-healing and self-optimizing features;
- Battery voltage and wireless link quality (RSSI) monitoring;
- Low power and long battery life;
- Extreme operating temperature range -40°C to 80°C and IP67 protection;
- Simple and intuitive USB configuration via Tekon Configurator (free software).



C.03.340-E-180518
www.temco.be

TYPICAL APPLICATIONS



HOW IT WORKS



TRANSMITTER

DUOS Wireless Transmitter supports various external sensors for temperature, humidity or CO2 monitoring. It encloses an extra internal temperature sensor for product thermal inertia simulation and optionally, an external Digital Input for event detection.

REPEATER

DUOS Wireless Repeater provides extra communication range by supporting up to 13 hops (12 repeaters in series). It also adds network redundancy with unlimited devices taking advantage of mesh network topology and permanently discovering the best wireless link.

GATEWAY

DUOS Wireless Gateway is the mesh network central device collecting information from up to 55 DUOS Transmitters simultaneously. It communicates via Modbus RTU with any PLC or HMI for industrial applications. Seamless PC integration is possible using Tekon IoT Platform software for remote monitoring.

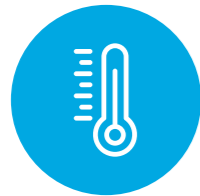
TEKON IoT PLATFORM

Tekon's proprietary software allows fully integration of DUOS family devices for remote monitoring - web and mobile - cloud access and warnings configuration. It is now easier to be connected to Tekon devices anytime and anywhere, welcoming Industry 4.0 and Industrial IoT transformation.

DUOS FAMILY



TEMP

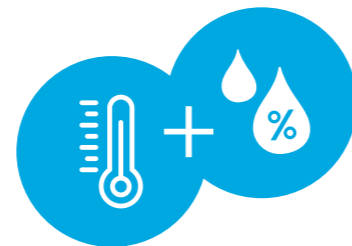


Dual temperature probe
internal and external*

*various probe options



HYGROTEMP

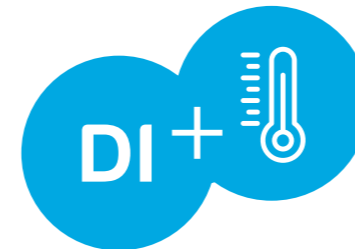


Dual probe
external temperature and humidity*
+ internal temperature

*various probe options



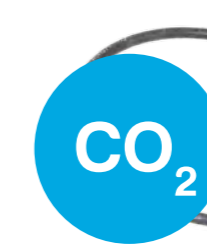
DI+TEMP



Dual temperature probe
internal and external*
External digital input
for event detection

*various probe options

CO₂



Dual probe
external CO₂ and internal temperature

