

The Reliable Secure Interconnect Solution from TESP Labs

SANDESH TGC SERIES

SANDESH TGC Series gateway is designed to communicate remote devices via 4G Network. Gateway can be used to collect data from Modbus devices connected in RS485 serial line.

TESP Labs is providing an integration to Schneider Electric ATV320 and ATV312 to communicate securely with Schneider Electric portal with preconfigured authentication.

Gateway can be mounted on DIN or Wall, and it works with power supply ranging from 20V-28V DC for Schneider Electric drive. The serial port feature 8 kV ESD line protection to protect the products from harmful electrical discharge, built-in micro-USB interface make it easy for user connect to PC for configuration and fast Firmware upgrade.



GENERIC INDUSTRIAL GATEWAY



Generic Modbus data collection and Logging - FC03/06, Periodic collection RS485/ Modbus TCP



Data format conversion



Data Publication HTTPS or MQTT Broker

FEATURES

SSL/TSL SUPPORT

SERIAL PORT (RS485)

SIGNAL JAMMING DETECTION

TCP/UDP/HTTP/HTTPS/MQTT SUPPORT

WINDOWS AZURE/ AWS SUPPORT FOR MQTT

EASY CONFIGURATION VIA USB & CLOUD SERVER

OVER THE AIR (OTA) FIRMWARE UPGRADE

DATA PUSH & PULL OPTION

MONITOR & CONTROL FROM CLOUD SERVER

USB PORT FOR CONFIGURATION & MAINTENANCE

LOCATION PUBLICATION

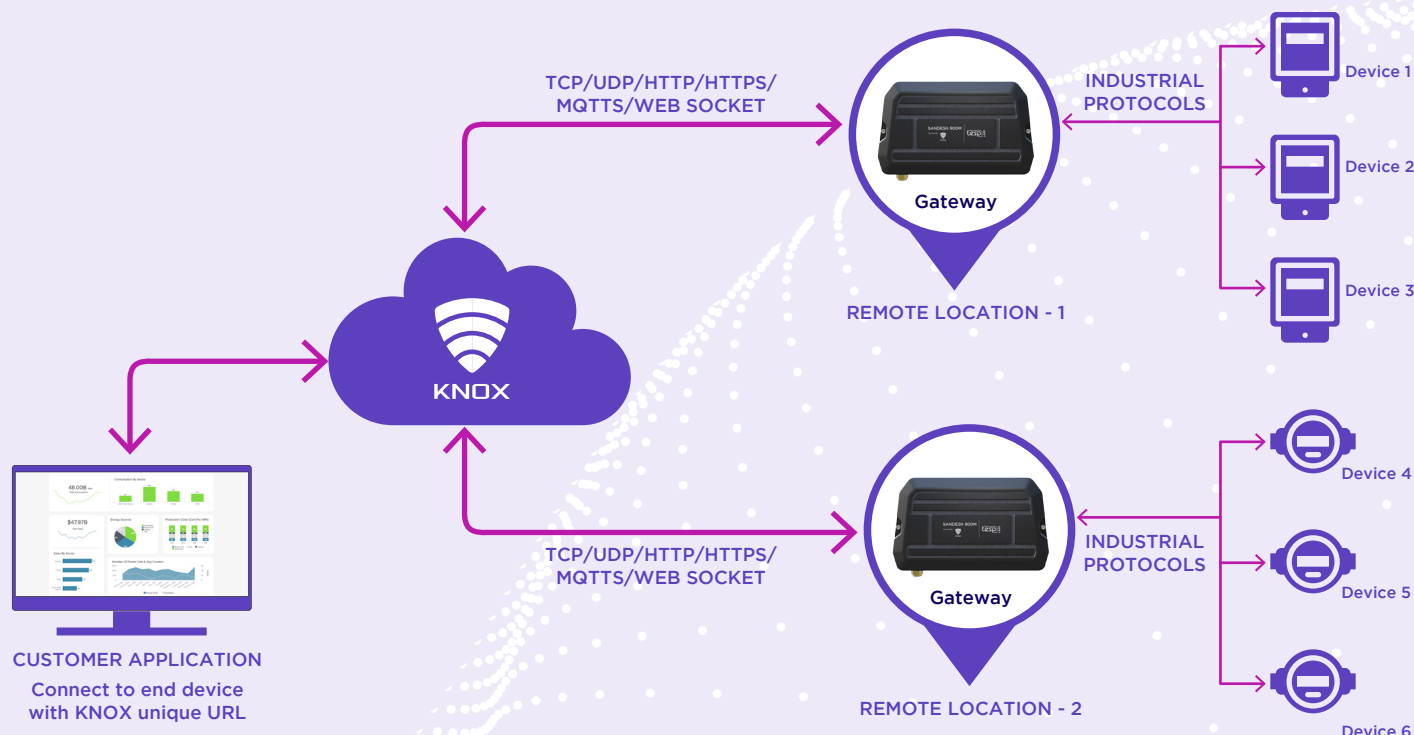
LATITUDE & LONGITUDE

STATUS INDICATION VIA 4 LEDS

OUR PRODUCT COMPLIES WITH THE FOLLOWING

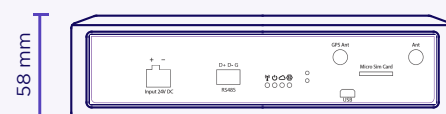
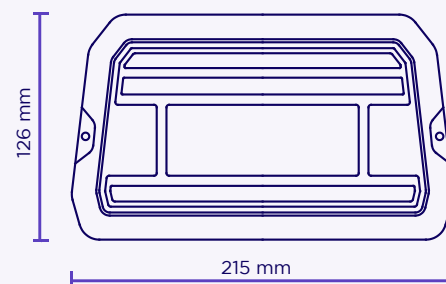
Safety	IEC 62368- 1 2023
Health	EN62311: 2020
EMC	EN55032:2015/A11 : 2020
	EN 55035: 2017 + A11:2020
	EN 301 489-1 V2.2.3
	EN 301 489-17 V3.2.4
	IEC 61000-6-1
Radio	EN 301 908-1 V13.1.1
	EN 301 908-13 V13.1.1
	EN 301 511 V12.5.1
	EN 303 413 V1.1.1

GENERIC INDUSTRIAL MODEM - SYSTEM ARCHITECTURE



TECHNICAL SPECIFICATIONS

POWER SUPPLY	20V-28V DC
POWER CONSUMPTION	2.5W AVERAGE, 3.5W (PEAK POWER)
COMMUNICATION	4G CONNECTIVITY 4G fall back to 2G
OPERATING TEMPERATURE	-10°C TO 60°C and 0 to 70% RH
DIMENSION	126MM (L) X 215MM (B) X 58MM (H)
WEIGHT	~500GMS
MATERIAL	ABS
PHYSICAL INTERFACE	SIM, USB, RS485, POWER SUPPLY INTERFACE, LTE ANTENNA AND GPS ANTENNA
CONFIGURATION	REMOTELY CONFIGURABLE / LOCAL CONFIGURABLE WITH USB FOR SPECIFIC APPLICATIONS
FREQUENCY BAND	LTE-FDD: B1/B3/B5/B7/B8/B20/B28. LTE-TDD: B38/B40/B41 GSM: B2/B3/B5/B8 GNSS: GPS
INDICATIONS	NETWORK MODE LED NETWORK STATUS LED POWER LED INTERNET STATUS
STORAGE TEMPERATURE	-10°C TO +50°C and 0 TO 70% RH



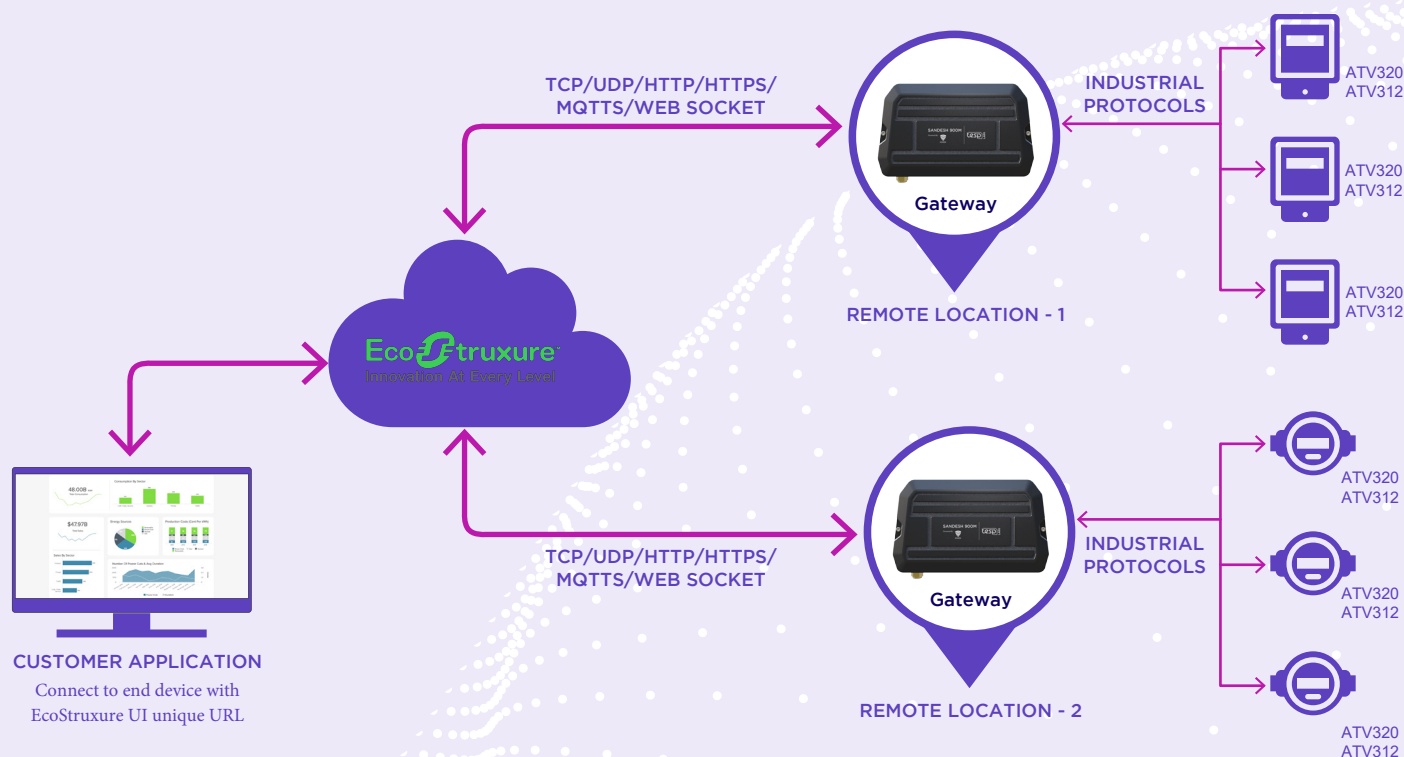
ACCESSORIES

● 3 DBI ANTENNA, 3 METER - 1 NO.

● CONNECTORS FOR INTERFACE - 2 NOS.

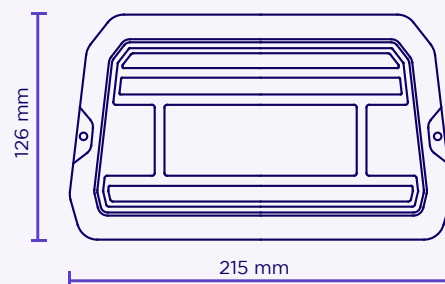
● GPS Antenna - 1 NO

SCHNEIDER SPECIFIC INTEGRATION - SYSTEM ARCHITECTURE

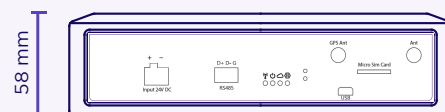


TECHNICAL SPECIFICATIONS

POWER SUPPLY	20V-28V DC with Schneider Drive
POWER CONSUMPTION	2.5W AVERAGE, 3.5W (PEAK POWER)
STATUS INDICATORS	4G CONNECTIVITY 4G fall back to 2G
OPERATING TEMPERATURE	-10°C TO 60°C and 0 to 70% RH
DIMENSION	126MM (L) X 215MM (B) X 58MM (H)
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FRONT VIEW



BOTTOM VIEW

ACCESSORIES

● 3 DBI ANTENNA, 3 METER - 1 NO.

● CONNECTORS FOR INTERFACE - 2 NOS.

● GPS Antenna - 1 NO