



HXEJ201

HXEJ201 is cost effective all in one device comprising full function meter, data concentrator and transformer protection system integrated in one packege

Outdoor Transformer Monitoring Terminal

HXEJ201

HXEJ201 is a single package device integrating all following 3 devices into just 1 device to bring costs significantly down and make installation easier and quicker

Right under distribution transformers usually three electronics devices can be found:

- 1 E-meter for measuring energy and other electrical parameters of the transformer
- 2– Data concentrator to collect data from smart meters under the transformer (on the feeder) and send to master station
- 3– Transformer monitoring and protection system to retain safe operation of the transformer

HXEJ201 communicates with connected meter via built–in PLC / RF modem and transfers message to master station through built–in GPRS / 3G / 4G modem.



HIGHLIGHTS

Industrial Design

- o Runs industrial light-weight RTOS
- o Designed to work in harsh environment like frequently voltage fluctuating networks

Last Gasp Operation

o Detects power off and sends message to master station about latest status using its internal battery

Easy Maintenance

- o Remote firmware upgrade from the master station
- o Local firmware upgrade through USB
- o Local maintenance using HHU / PC software

Easy Installation

- o Split Rogowski coil
- o Installation without power supply interruption to customer

Open Protocol Compliance

o Supporting popular and open protocol of DLMS/COSEM

Multiple I/O Interface

- o Input from main circuit breaker for its status
- o Input from different sensors

Large Capacity

- o 30 days of data of 1024 meters for daily billing
- o 15 days of data of 255 meters for hourly load profile
- o 365 days of data of 1024 meters for monthly billing data

High Ingress Protection Class

- o IP65 but actual protection is beyond
- o Outdoor installation ready

MAIN FUNCTIONALITIES

Measurement

- o Instantaneous values like voltage, current, power, power factor
- o 4 quadrant energy: active, reactive and apparent

Data Collection

- o Manges up to 1024 meters for data collection and concentration
- o Collects data on request or based on schedule or once meters report event
- o Provides master station a transparent access to meters

Transformer Monitoring and Protection

- o Calculation of both copper and iron losses
- o Overload detection and alarm
- o Low power factor detection and alarm

Power Quality Monitoring

- o Voltage and current unbalance
- o Sag and swell
- o Harmonic factors
- o Power outage

Events / Alarms

- o Collects events / alarms from the entire meters under the transformer
- o Generates self diagnosis events / alarms
- o Manages all events / alarms

Communication

- o Intergrated GPRS / 3G / 4G for up-link
- o Intergrated PLC / RF for down-link
- o 1 USB for local firmware update
- o 1 WIFI for local maintenance

Synchronization

o Supports time synchronization both locally and remotely

Security

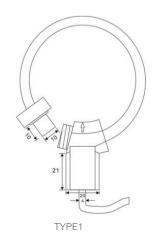
o Full end to end data encryption

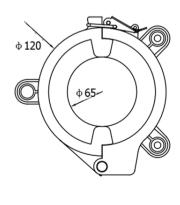
Local and Remote Access

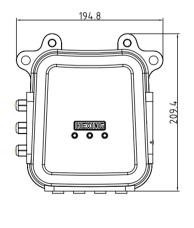
- o Hexing's Central System
- o PC software
- o HHU

TECHNICAL SPECIFICATIONS		
METERING ACCURACY	Active energy: Reactive energy:	Class 0.5s Class 2
NOMINAL VOLTAGE	3 phase 4 wire 1 phase 3 wire	3 × 220 / 380V, 3 × 230 / 400V, 3 × 240 / 415V 120V
VOLTAGE RANGE		0.8–1.2Un
FREQURNCY		50 / 60Hz
FREQUENCY RANGE		47-52Hz / 57-62Hz
CURRENT RANGE	lb (Imax) Range	50(500)A , 100(1000)A 1A~Imax (type1) , 20A~Imax(type2)
POWER CONSUMPTION	Voltage circuit :	< 5W, < 10VA
TEMPERATURE RANGE	Operation: Storage and transportation:	- 30 ° C to +70 ° C - 40 ° C to +85 ° C
HUMIDITY RANGE		Up to 100%
PROTECTION DEGREE		IP65
EMC	Electrostatic discharge Fast transient burst Surge immunity Electromagnetic RF fields	Contact discharge 8KV Air discharge 15KV 4KV 4KV Frequency range 80kHz to 2000MHz With current 10V / m Without current 30V / m
INSULATING STRENGTH	Impulse voltage AC voltage	1.2 / 50 µ s main connections 8KV 4KV during 1min
STANDARDS		IEC 61000-4-3, IEC 61000-4-2, IEC 61000-4-4 IEC 62052-11, IEC 62053-21, IEC62053-22 IEC 62053-23, etc.
RTC	Clock accuracy	< 0.5s / day
COMMUNICATION	Built-in	WIFI, USB, GPRS/3G/4G, PLC/RF
HOUSING MATERIAL		Polycarbonate
WEIGHT		approx. 1.0 kg
DIMENSION		210mm x 195mm x 70mm (L x W x H)

DIMENSION







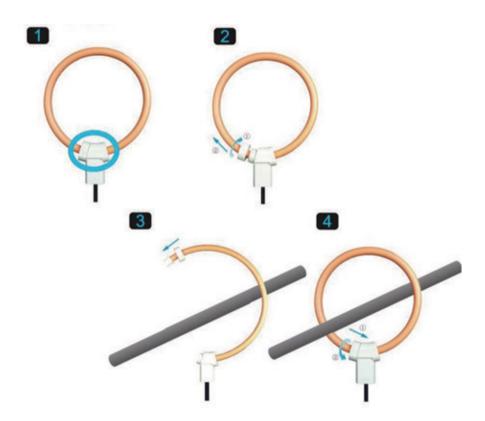


TYPE2

TYPE1



TYPE2



NAFTEX INTERNACIONAL S. R. L.

Erik Ekman 29, Arroyo Hondo Santo Domingo, Dominican Repuclic +1 809 563 4239 info@naftexdr.com www.naftexdr.com

