

FEEDERNET LV SUBSTATION MONITORING



COST EFFECTIVE LV SUBSTATION MONITORING

Retro-Fit Installation using Flexible
Rogowski Coils for current sensing.
Minimised cabling eases installation.

OVER-THE-AIR CONFIGURATION AND MEASUREMENTS

System is offered with options for
control over GPRS or Ethernet,
including data standards such as
MODBUS and IEC 60870-5-104

FEEDERNET BUS

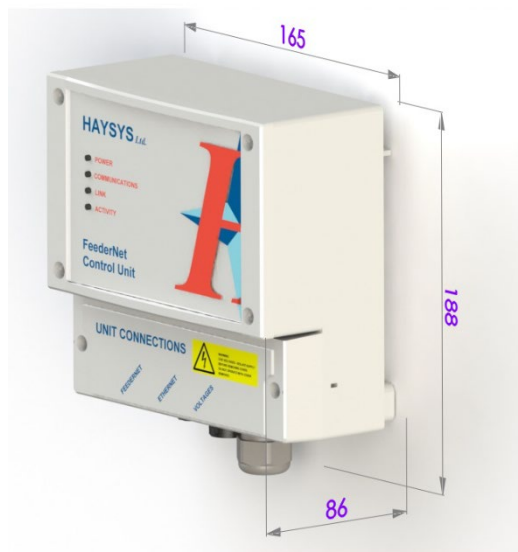
The Measurement Modules
communicate with the Control Unit
using a serial FeederNet data bus,
simplifying installation.

EIGHT FEEDERS

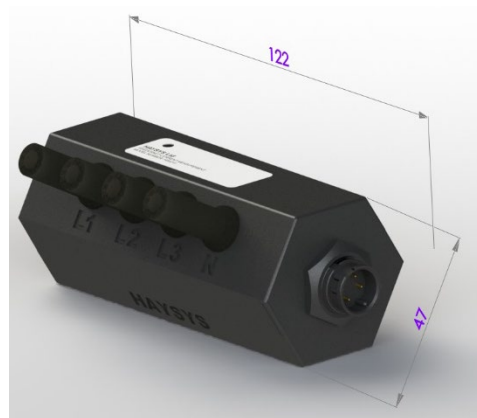
The Control Unit is capable of
monitoring up to eight substation
feeders, including Neutral currents.

DATA STORAGE

Measured data is stored on a
FeederNet SQL Server database that
can be hosted by the customer or by
HAYSYS Servers. Access to data
from HAYSYS Servers using
standard Web browsers over the
Internet



CONTROL UNIT (H00217)



MEASUREMENT MODULE (H00216)



ROGOWSKI COIL (MFC150)

The HAYSYS FeederNet product provides a complete
Substation monitoring solution that provides fast and
simplified installation without any substation shut-down.

The FeederNet system comprises of three main
assemblies;

- The FeederNet Control Unit
- The FeederNet Measurement Module
- The flexible Rogowski Coil or other current sensing
(Current Transformers etc.)

- **Complete Substation Monitoring Solution**
- **Up to eight substation feeders can be monitored.**
- **Multiple parameters measured (Volts, Current, Power, Power Factor, THD).**
- **Can be configured to report by exception**
- **Simple No-Shutdown Installation**
- **Current Measurement using Rogowski Coil sensors or CTs.**
- **Suitable for Substation Cabinet installation or Pole Mounted.**
- **Suitable for external installation with all units rated to IP65.**

Specifications

CONTROL UNIT

IP Rating	IP65
Mounting	Wall, Magnetic Mounting or DIN Rail Mounting
Power	Self-Powered from Phase Voltage connections
Connectivity	3Ph&N, FeederNet Bus and Ethernet
Communications	GPRS and Ethernet
Communications Protocols	MODBUS, IEC 60870-5-104 and IEC 68150
Internal Measurement Storage	Non-volatile storage and Micro SD Card
Configuration	Configured OTA
Options	Measurement Frequency and scheduled upload

MEASUREMENT MODULE

Modules Available	3Ph&N Current, Temperature, Auxiliary Inputs
Accuracy	Current <0.2% of Reading

ROGOWSKI COIL

Diameter	30mm (others available upon request)
Accuracy	<1% of Reading
Isolation Voltage	>1,000 volts peak

VOLTAGE MEASUREMENT

Maximum Voltage	500V RMS Ph-Ph
Connectivity	Voltage Clamps or Measurement Lead
Voltage Supply	Single Phase 240V – From any Phase

MEASUREMENTS

➤ Voltage (Min, Max and Average)	All Three Phases
➤ Current (Min, Max and Average)	All Three Phases and Neutral
➤ True Power (Min, Max and Average)	
➤ Apparent Power (Min, Max and Average)	
➤ Reactive Power (Min, Max and Average)	
➤ Phase Angle	
➤ Frequency	
➤ Fundamental Frequency	
➤ Total Harmonic Distortion	

APPROVALS

- EMC
 - EN 61000-6-2:2005
 - EN 61000-6-4:2007 +A1:2011
- SAFETY TESTING
 - EN 61010-1:2010; CAT IV
 - EN 61010-2-30:2010; CAT IV

Contact Details:
HAYSYS Limited
Pembroke House,
Spring Meadow Business Park,
Spring Meadow Road,
Rumney,
Cardiff
United Kingdom
CF3 2ES.

Tel: +44 (0)29 20 736276
Fax: +44 (0)29 20 735949
Email: info@haysys.co.uk