

4DTC Metering Data Concentrator





Additional Features

The Data Concentrator also offers a range of other functionalities including:

- ✓ Remote firmware upgrade capability, WEB/ TELNET configuration options,
- ✓ connection to the ZIV AMI Manager (a PLC debugging tool),
- ✓ NTP synchronization,
- ✓ a hardware watchdog for enhanced system reliability,
- ✓ SNMP management for efficient network monitoring,
- ✓ secure access control for authorized usage,
- ✓ secure file transfer protocol for safe data exchange,
- ✓ and a Transport Layer Security (TLS) protocol for secure communication.

A Metering data concentrator that includes a **Powerline Communication Module** (PLC) with **network monitoring** functions, in addition to **remote smart meter management** functions.

The **4DTC** model is a Metering Data Concentrator equipped with a Powerline Communication Module (PLC) that not only facilitates remote smart meter management functions but also incorporates network monitoring capabilities.

It is designed to automatically identify the meters within its low-voltage (LV) network and operates using the PRIME (1.3&1.4) topology.



Making the Smart Grid Real



Communication Interfaces

PRIME BASE NODE

Dual PRIME1.3 & PRIME1.4 1..8 FCC bands. Smart three phase/selectable single phase.

ETHERNET PORTS

ETH WAN: 10/100 BaseT connector. 10 kV AC/50 Hz. ETH LAN: 10/100 BaseT connector. 2 kV AC/50Hz.

Serial Port (SRV). Service interface RS232 (DB9). 1 kV AC/50 Hz.

Application Protocols

(meters) DLMS/COSEM (AES-GCM-128). (HES) XML/Web Services over SOAP.

Access Control Protocol

TACACS+ LDAPS SimpleBind Mechanism.

Access Protocol

SSH. Telnet (enable/disable). Web Service (WebUI). HTTPS.

Transport Layer Protocol

TLS version 1.2 or higher. X.509 identity (public and private key).

File Transfer Protocol

SFTP.

Synchronization Protocol

NTPv4.

Monitoring Protocol

SNMP v3 or higher.

Technical Information

Power supply	
3x127-230 Vac (-20%15%). 50Hz 2 kV AC/50Hz	
Consumption	8 W total / 35 VA per phase (due to PLC coupling).
Environmental conditions	
Operating and storage	-25°C to 60°C
Humidity	<95% (non-condensing).
Enclosure	
ZIV Universal Polycarbonate Box.	
IP:2XB (EN 60529).	
Dimensions	
220 x 140 X 93.6 mm.	
Mounting options	
Mell/ DIN vell record	

Wall/ DIN rail mount.

ZIV Automation Headquarters