

# OSI 3-PHASE ENERGY MANAGEMENT SYSTEM MODEL DMT-1007/1008

## DESCRIPTION

The DMT-1007 and 1008 may be used for any remote application to record state information and billing data for power feeders, distribution or specific loads in electrical systems. They can be connected via *Intranet* or *Internet*. For an on-site display the devices can be installed with an A200 display unit which visualizes all state information via high-contrast LED displays.



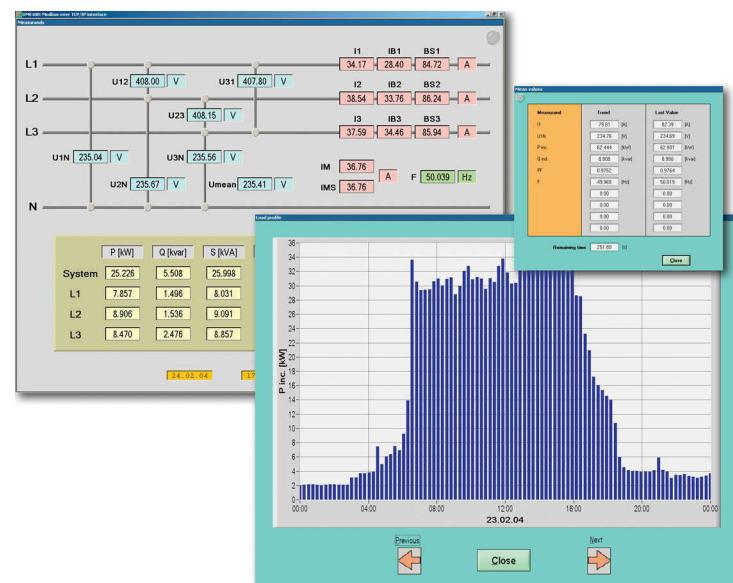
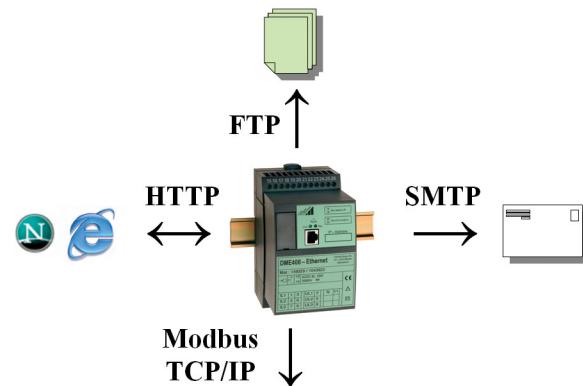
The DMT-1007 supports Modbus over TCP/IP protocol. The DMT-1008 adds e-mail and file transfer as well as measurement acquisition via browser.

## FEATURES

- Accurate reporting (class 0.2) of the present system state
- Recording energy consumption and billing data (load profiles, meters)
- Remote acquisition of measurement data via Ethernet using web browser (http), file transfer (ftp) or Modbus over TCP/IP protocol.
- Acquisition of mean values for any desired measurement with trend calculation and logging of their progression
- Monitoring of alarm limits: Alarming via e-mail (SMTP)
- Periodic transmission of measurement data via e-mail
- Built-in, synchronized real-time clock for stamping of measurements.

## ACCURACY

State measurements ..... Class 0.2  
Active energy meters ..... Class 1 (IEC 1036)  
Reactive energy meters ..... Class 2 (IEC 1268)  
Reactive energy meters ..... Class 2 (IEC 1268)



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## SPECIFICATIONS

### INPUT

Rated Frequency ..... 50, 60, or  $16\frac{2}{3}$ Hz  
 Voltage ..... Phase to Neutral ..... 57-400Vac  
                  Phase to Phase ..... 100-693Vac  
 Current ..... Nominal ..... 1 to 6Aac  
 Consumption (VA) ..... Voltage Circuit .....  $U^2/400\text{k}\Omega$   
                  Current Circuit .....  $\leq I^2 \cdot 0.01\Omega$   
 Overload Capacity  
     Current Circuit ..... 1-Φ AC System ..... 10A, 400V  
                  3-Φ System ..... 693V  
     Voltage Circuit ..... 1-Φ AC System ..... 480V  
                  3-Φ System ..... 831V

### ETHERNET INTERFACE

Bus connections ..... RJ45  
 Physical layer ..... 10/100 Base-T  
 IP address ..... 192.168.57.240, set via browser  
 Max length of bus ..... 7500ft  
 Interface ..... Electrically insulated (500V)  
 Configuration ..... From local PC or via Ethernet

### ELECTRICAL SAFETY

Protection class ..... Class II  
 Enclosure Protection ..Housing ..... IP 40  
                  Terminals ..... IP 20  
 Over-voltage category ..... III  
 Input Voltage ..... 400Vac  
 Output ..... 40Vdc  
 Power Supply ..... AC ..... 400Vac  
                  DC ..... 230Vdc  
 Surge test ..... 5kV; 1.2/50 $\mu$ s; 0.5Ws

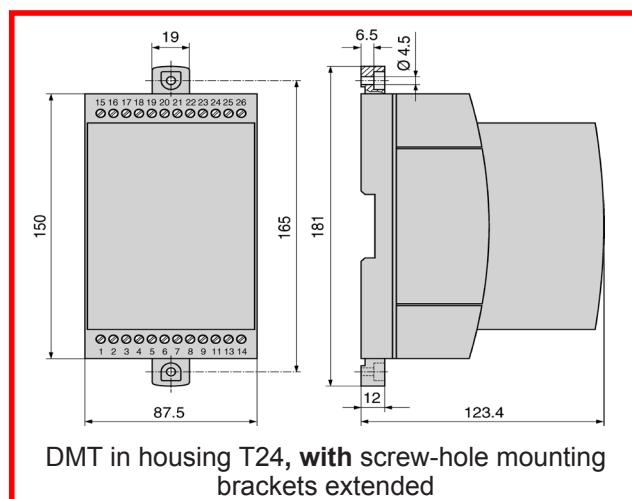
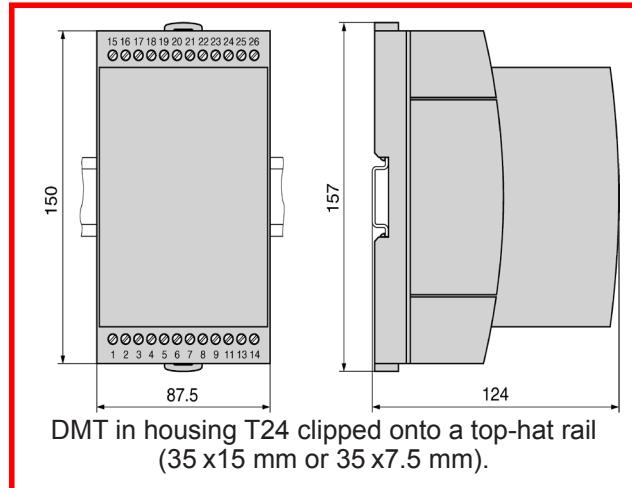
### INSTRUMENT POWER

Standard ..... 85 -230Vdc (-15% to +33%)  
                  or 85-230Vac ( $\pm 10\%$ )

### PROGRAMMING CONNECTOR ON TRANSDUCER

Interface ..... RS-232C  
 DSVB socket ..... 9-Pin

## DIMENSIONS



All dimensions in mm.

## CONNECTIONS

