

# Unimeter™ XQL Technology

The Universal Instrument for  
Measurement and Control

## UniPower



- ◆ UniPower is an application model of Unimeter Universal Instrument for monitoring, alarm, recording, control and PC trending of AC and DC power systems.
- ◆ In AC mode, UniPower measures and displays all 6 parameters of ACV, ACA, PF, KW, Hz, and KWH.
- ◆ In DC mode, UniPower measures and displays DC/battery voltage, with two alarm relays, analog outputs and 10,500 records memory.
- ◆ In both AC and DC modes, UniPower readings can be trended in real time on PC by Unisoft (optional), which is also a paperless recorder and simple SCADA system.
- ◆ Among many users, more than 100 UniPower units have been used on Naval Frigates and Collins Class Submarines.

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# Specifications

## AC Mode

**Supply:** 110/230VAC, 50/60Hz

**Power Consumption:** 6W Maximum

**Input:** VT (110-240ACV), CT (1A/5A Secondary)

**Input Impedance:** 2M Ohm

**Conversion:** 20 ms (nominal)

**Display Update:** 0.7 second (nominal)

**Accuracy:** 0.5% Full Scale (Analog)

**Calibration:** Auto-calibration every 60 seconds, Lab Calibration optional

**Display:** +/- 19999 Back-lit LCD

**Communications:** RS485, 2 wire, PC adapter optional

**Casing:** Flame retardant ABS Plastic

**Dimensions:** DIN Panel Mount, 97 x 50 x 148mm, Cutout 92.5 x 44.5mm

**Connections:** Screw Terminals

**Temperature Range:** -10 to 50 degrees C

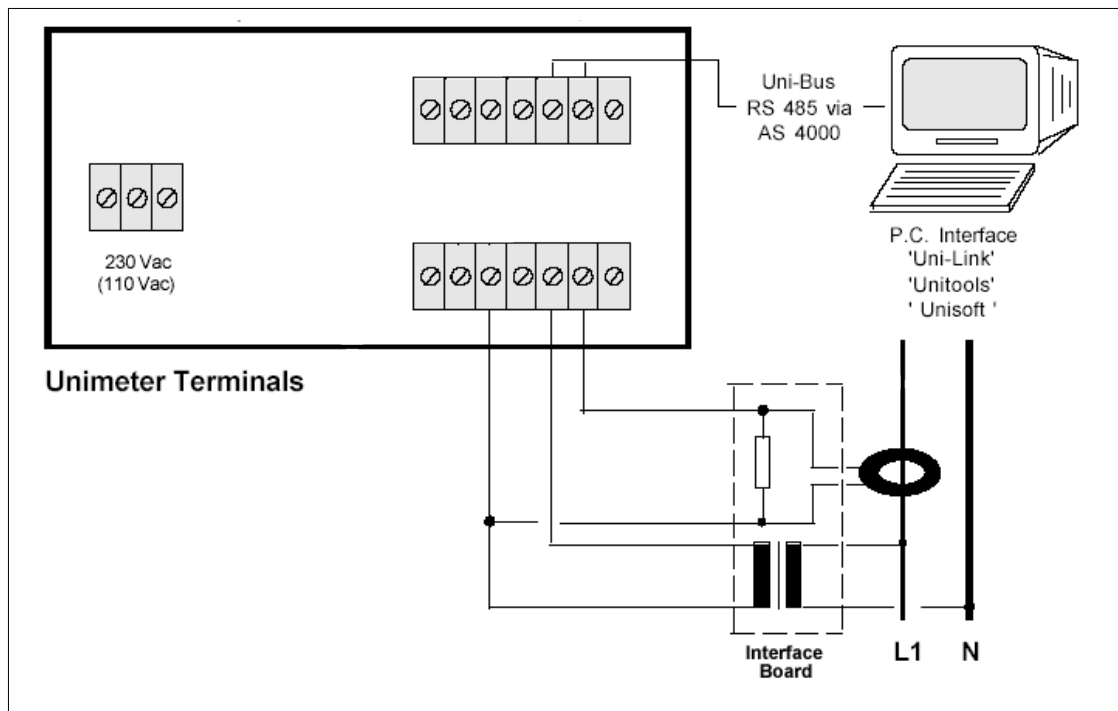
**Humidity:** 0-95% (Non condensing)

**Weight:** 750g

## Standards

◆ CE Compliance: EN55022, EN50082-1, IEC-801-2, IEC-801-3, IEC-801-4, Mil. Spec.

## Power Monitor



# Specifications

## DC Mode

**Supply:** 10-30VDC regulated

**Power Consumption:** 6W Maximum

**Input Range:** 0-12VDC, 0-24VDC, 0-48VDC, 0-110VDC

**Input Impedance:** 2M Ohm

**Input Over-range:** 300% for 10 seconds

**Conversion:** 20 ms (nominal)

**Display Update:** 0.7 second (nominal)

**Accuracy:** 0.1% Full Scale

**Calibration:** Auto-calibration every 60 seconds, Lab Calibration optional

**Display:** +/- 19999 Back-lit LCD with 40 segment analog bar-graph

**Analog Outputs:** 0-10VDC/4-20mA

**Set-points:** 2 SPDT Relays, 3 amp 240V, with dead band and delay functions

**Communications:** RS485, 2 wire, PC adapter optional

**Baud Rate:** 2,400 to 38,400

**Casing:** Flame retardant ABS Plastic

**Dimensions:** DIN Panel Mount, 97 x 50 x 148mm, Cutout 92.5 x 44.5mm

**Connections:** Screw Terminals

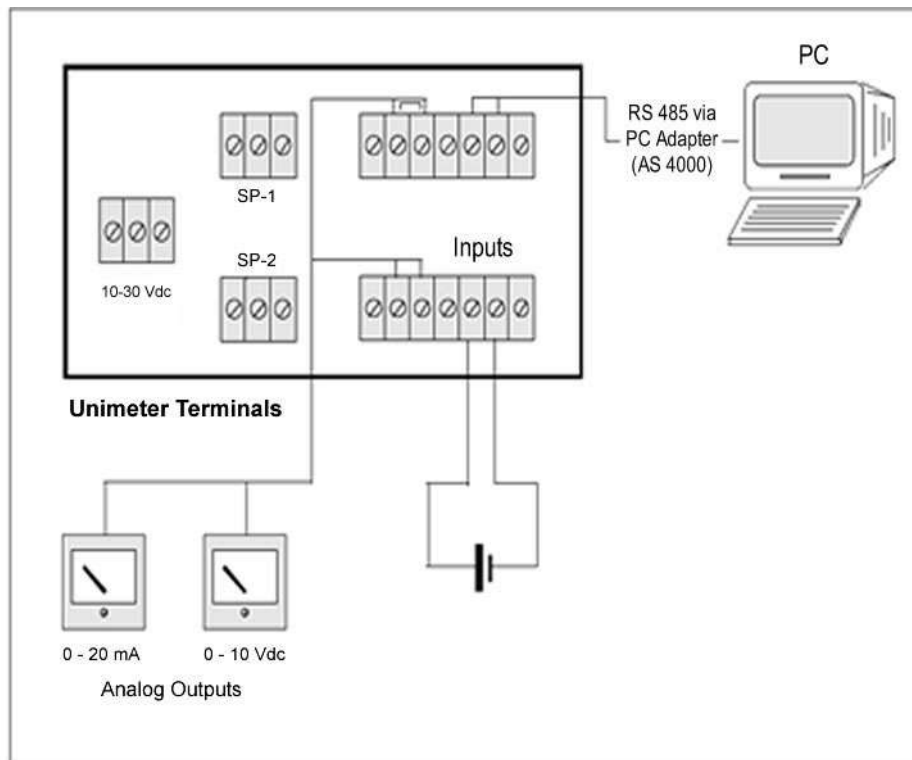
**Temperature Range:** -10 to 50 degrees C

**Humidity:** 0-95% (Non condensing)

**Weight:** 500g

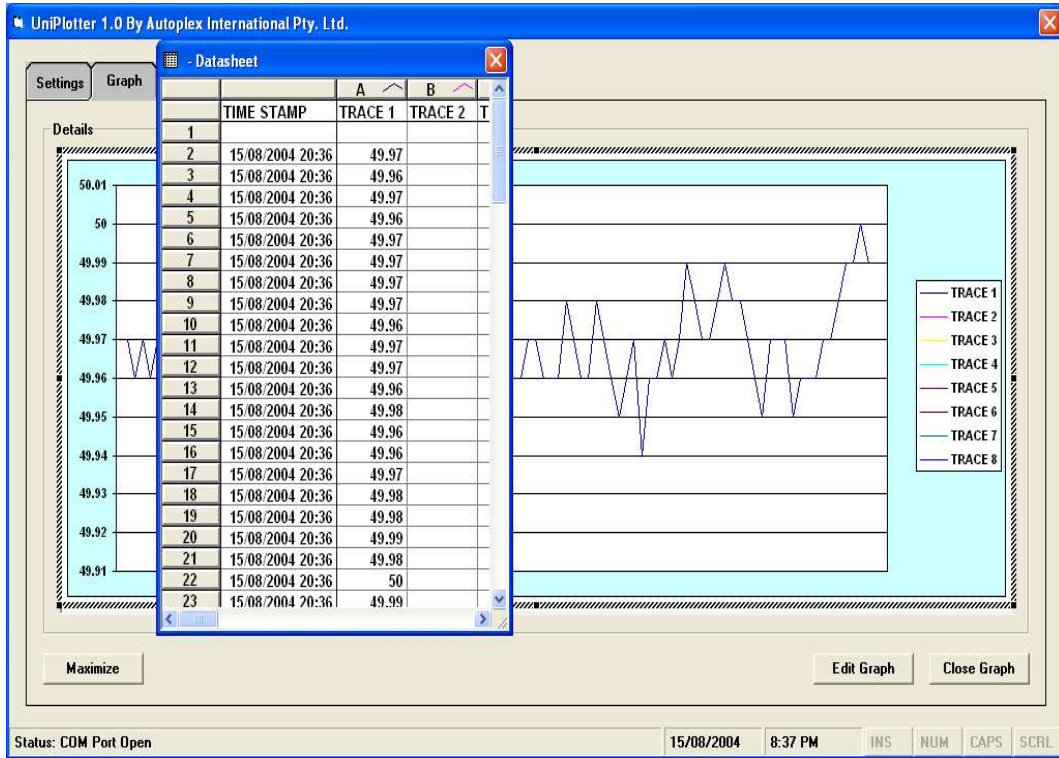
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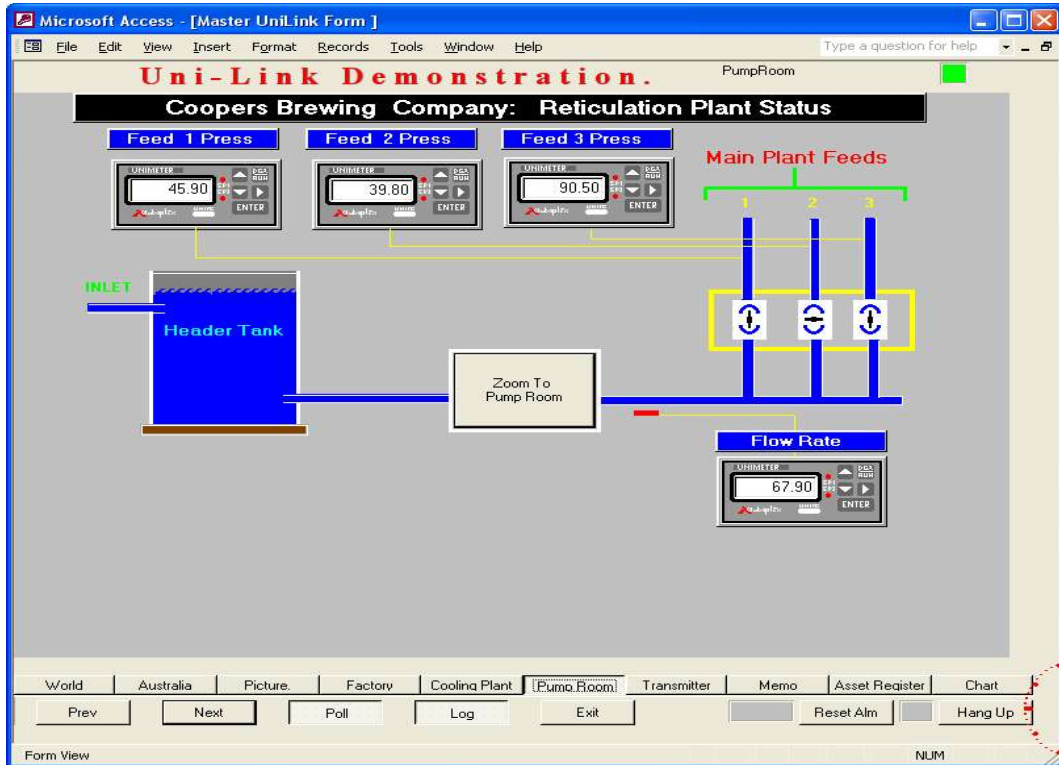


# UniSoft – PC Software for Unipower

- ◆ Uniplotter for PC Trending/Alarm Monitoring.
- ◆ Unilink for full SCADA solution.



**Uniplotter**



**Unilink**