



## PARAMETERS MEASURED

- \* dc Voltage (V)
- \* dc Current (I)
- \* dc Power (kW)
- \* dc Import Energy (kW.h)
- \* dc Export Energy (kW.h)
- \* dc Ampere Hours (A.h)
- \* dc Amp Demand (Ad)
- \* dc Max Amp Demand
- \* dc Power Demand (kWd)
- \* dc Max Power Demand
- \* dc Export Power Demand (kWd)
- \* dc Max Export Power Demand (kWd)
- \* Hours Run

## ORDERING INFORMATION

Information required	Example
Product Code	M553-CTXDC
Nominal input current	50mV
Nominal voltage	800V

### Standard nominal inputs:

#### Voltage

60V, 150V, 300V, 800V

#### Current (using external shunt)

50mV, 60mV, 75mV, 100mV

## PowerCom M553-CTXDC

The M553-CTXDC PowerCom is a multifunction dc power transducer, providing RS485 Modbus communication and a pulsed output in a 55mm Din enclosure.

The M553-CTXDC has a universal power supply which is suitable for ac or dc auxiliary voltages. The M553-CTXDC covers a wide range of voltage inputs and Current inputs. The current input can be Up to 5 amps direct or any value using a mV input

Example: a shunt of 2000A dc with 50mV output.

## COMMUNICATION

The M553-CTX uses the well established Modbus protocol. This enables remote reading and programming of the M553-CTX using a host computer.

The RS485 network allows up to 32 units to be connected in parallel, enabling them to be used with PC, PLC, RTU, Data loggers and Scada programs.

The PowerCom's communication port incorporates an auto-configure function which, when connected to an existing Modbus network, will automatically detect the network's parameters.

A red LED is provided to indicate that auxiliary power is present, and that the unit is communicating correctly.

## PROGRAMMING

The following can be programmed via the RS485 port: Current inputs, Demand times, relay divisor.

## SOFTWARE

MultiView set-up and monitoring software is available free of charge from our web-site:

[www.multitek-ltd.com](http://www.multitek-ltd.com)

## PULSED OUTPUT

An optional pulsed output can be ordered.

The relay can be assigned to kW.h (import/export), A.h or it can be configured to act as set-point relay in an over, under or window mode.

## GENERAL SPECIFICATION

### INPUT

<b>Rated Un</b>	<b>Directly connected:</b> 800Vdc, 300Vdc, 150Vdc or 60Vdc
<b>Range</b>	2-120% Un
<b>Overload</b>	120% Un
<b>Rated In</b>	mV dc, 1Adc or 5A dc
<b>Range</b>	2-120% In
<b>Overload</b>	120% In
<b>Overload</b>	2 x In for 1 second

### ACCURACY

<b>Specified @ 23°C</b>	10-100% Un, 10-100% In
<b>Parameters unless stated</b>	Class 0.3% to IEC 688
<b>Volts and Amps</b>	Class 0.25% to IEC 688
<b>Energy</b>	1% of reading to IEC 1036

### INSULATION

<b>Installation category</b>	III
<b>Degree of pollution</b>	2
<b>Rated impulse withstand voltage</b>	IEC60947-1-V imp:4kV
<b>Electrical security</b>	IEC 61010-1
<b>Inputs + Aux to case</b>	3kV rms 50Hz for 1 min
<b>Inputs + Aux to RS485</b>	3kV rms 50Hz for 1 min
<b>Inputs + Aux to relay</b>	1k5V rms 50Hz for 1 min

### ENVIRONMENTAL

<b>Working Temperature</b>	0 to +60 deg C
<b>Storage Temperature</b>	-30 to +65 deg C
<b>Temperature Coefficient</b>	0.01% per deg C

### ELECTROMAGNETIC COMPATIBILITY

<b>Immunity to:</b>	
<b>electrostatic discharges:</b>	IEC 61000-4-2-Level III
<b>radiated radio-Hz fields:</b>	IEC 61000-4-3-Level III
<b>electrical fast transient/bursts:</b>	IEC 61000-4-4-Level III
<b>impulse waves:</b>	IEC 61000-4-5-Level III
<b>conducted disturbances:</b>	IEC 61000-4-6-Level III
<b>voltage dips &amp; short interruptions:</b>	IEC 61000-4-11
<b>Emissions to:</b>	
<b>Conducted and radiated</b>	CISPR11-Class A

## OPTIONS

Solid-state, low voltage relay.  
**Rated:**  
 100Vpk, 120mA

## AUXILIARY

**Standard:** 100-440Vac/100-420Vdc  
**Optional:** 19-69Vdc

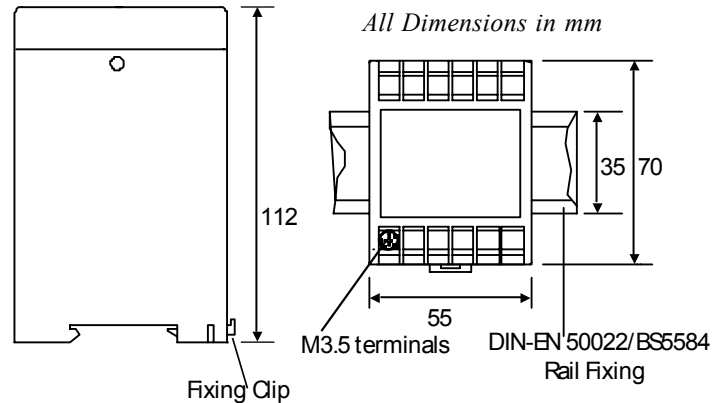
## APPLIED STANDARDS

<b>General</b>	IEC 688 BSEN60688 BS4889 IEC 359
<b>Safety</b>	IEC 6101-1 2010

## APPROVALS

UL, C-UL, Pending

## CASE DIMENSIONS



## CONNECTION DIAGRAM

