



Matrix Metering Ltd
Electricity Meter Manufacturers
Whitegate, White Lund Trading Estate
Lancaster, Lancashire, England. LA3 3BT
Tel 01524 841909 Fax 01524 847009
e mail sales@matrixmetering.com

Three Phase Credit Meter - Current Transformer Technical Data

Order Codes – Standard JG3/CT(ampereage)/CT eg JG3/300/CT
Pulsed JG3/CT(ampereage)/CT/P

Electrical Specification

5/6 amps 230/415 Volts 50 Hz

Meter Constant = 5.0 wh

Accuracy Class 2

Manufactured to ISOEN 61036

Fully compliant to EMS Regulations BS EN 50081 –1 BS EN 50082 –1



Operational Data

Non Registration with voltage alone logical creep inhibits circuit.

Installation Test - 2000V rate of consumption

Terminal Sizes – Diameter

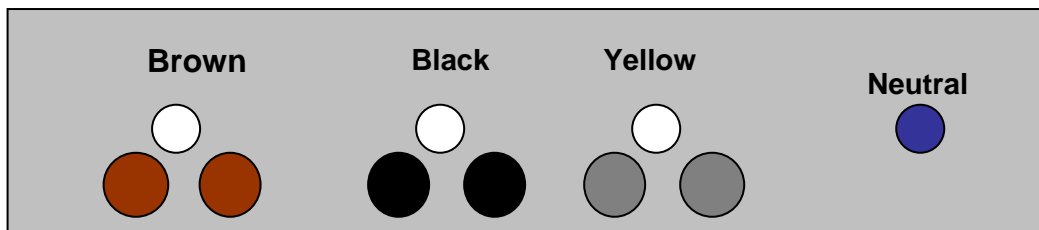
8.2mm CT

3.5 mm Voltage Terminal

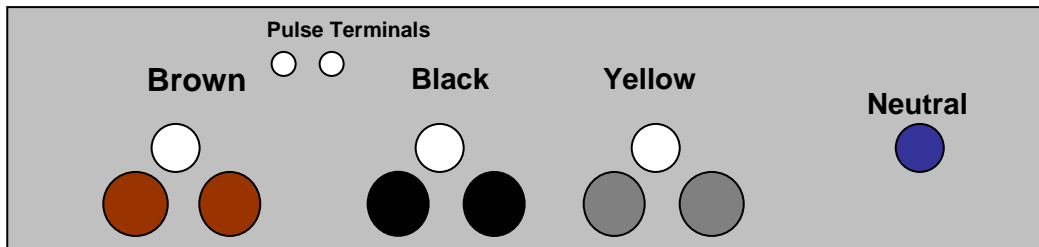
2.6 mm Pulse

Terminals conform to ENISO 5685 Pt 1

Wiring Diagram – CT Meter - Standard



Wiring Diagram – CT Meter - Pulsed





Matrix Metering Ltd
Electricity Meter Manufacturers
 Whitegate, White Lund Trading Estate
 Lancaster, Lancashire, England. LA3 3BT
 Tel 01524 841909 Fax 01524 847009
 e mail sales@matrixmetering.com

Weight

0.9kg

Case

Size 253mm high 170 mm wide 90 mm deep
 Terminals – Brass to BS 5685 Pt 1 – connect directly to a Manganin shunt in the live circuit. Sealing Points – case and terminals covers are both suitable for Bowden cable seals

Register

16 digit Liquid Crystal Display, Programmable Display Sequence

Anti Tamper Features

Reverse current – Display shows an ‘R’ to acknowledge Credit total is not decremented

Pulse Data

Voltage Free Contacts
 Single pole, Form A,
 Mercury Wetted, Intrinsically Safe,
 Diode Suppresses Coil,
 Internal Magnetic Shield,
 Fully Encapsulated,
 Plastic Case.

ELECTRICAL AND OPERATING CHARACERISTICS

Characteristics	Units	
CONTACT RATINGS		
Power, Switching Voltage,	Vdc, Maximum	500
Switching Current,	Amperes, Maximum	2
Switching Current, Carry	Amperes, Maximum	3
CONTACT RESISTANCE		
Initial Operating Temperature	Ohms, Maximum	0.08
Storage Temperature	Degrees, Celsius	-20 to +70
Mounting Position	Degrees, Celsius	-35 to +105
Vibration Release	Degrees from Vertical	30
Shock Resistance	G'S, Max, 10-2000 Hz	
INSULATION RESISTANCE		
Across Open Contacts	G's, Max, 11ms ½ Sine	5
Between Isolated Pins	Ohms, Minimum	10 10
TIMING		
Operate Time	Ohms, Minimum	10 10
Release Time	ms, Nominal	3.0
Drain Time	ms, Nominal	3.0
VOLTAGE HOLD-OFF		
Across Open Contacts	Seconds, Maximum	30
Coil to E.S. Shield	Vdc, Minimum	1500
Coil to Contacts	Vac, Minimum	---
Between Isolated Pins	Vac, Minimum	4000
	Vac, Minimum	





Matrix Metering Ltd
Electricity Meter Manufacturers
Whitegate, White Lund Trading Estate
Lancaster, Lancashire, England. LA3 3BT
Tel 01524 841909 Fax 01524 847009
e mail sales@matrixmetering.com

Programming

Pre programming before despatch

Programming options (examples)

kWh (standard) kVarh, Import & Export, kWh & kVa demand, Maximum Demands
Pulsed Outputs, 8 Tariffs

SPECIAL TESTS

COIL CHARACTERISTICS @ 25* C

Nominal Coil Voltage Vdc	12
Coil Resistance +10% Ohms	745
Must Not Operate Vdc	--
Must Operate Vdc	9.0
Must Release Vdc	1.0
Maximum Coil Voltage Vdc	20

Temperature Range

Operating Range - 10c to 45c
Limit range of operation -20c to 55c
Storage range -25c to 70c
This complies with IEC 1036 4.3.1

EMC Standards

Full compliance meeting generic standard EN50091-2 and immunity standard EN50082-2 for industrial environments

Safety Standard

Complies with EN61010 installation category 11 Pollution degree 2

RoHS & WEE Directives

Compliance with both European directives

