

<p><b>*Mandatory fields to fill in</b></p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p><b><i>System(s) Search</i></b></p> <p><i>Step 1:</i></p> <p><i>Search for a system based on the intended use &amp; location of product from the Ss System tab below</i></p> </div>	<b>Project</b>	<b>ORIEL</b>
	<b>*Originator</b>	Adexsi UK
	<b>Name of issuer</b>	Laura de la Iglesia
	<p><b>*System(s) Designation</b></p> <p><i>Step 2: Copy &amp; paste (Ctrl+V) results from Ss System Tab</i></p>	<p><i>Ss_70_10_70_35 Grid-connected photovoltaic systems</i></p>

ORL	-	ADX	-	XX	-	09	-	TPS	-	E	-	000012	-	S4	-	C01
Project		Originator		Functional Breakdown		Spatial Breakdown		Form		Discipline		Number		Suitability		Revision

<b>*Manufacturer (not supplier)</b>	J W Smart Meters Ltd
<b>*Manufacturers Product Name</b>	emlite
<b>*Manufacturers Product Number</b>	emlite EMP1
<b>*Manufacturers Product Description</b>	Three phase whole current meter
<i>(The above must come from the manufacturers data sheet)</i>	
<b>*Project Description of Use</b>	Three phase whole current meter

<p><b>*Location of product within the building</b></p> <p><i>(attach markup drawing where necessary):</i></p>	Plantroom at 9th floor
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<b>*Warranty Description</b>	Parts				
<b>Warranty Guarantor Parts</b>	<i>J W Smart Meters Ltd</i>		<b>Duration</b>	12	<b>Units:</b> Months
<b>Warranty Guarantor Labour</b>			<b>Duration</b>		
<b>Material</b>	Mixed		<b>Finish</b>	Smooth	<b>Colour</b> White
<b>Expected Life Duration</b>	25	<b>Units</b>	<i>Years</i>	<i>(Use pulldown menus for Finish, Material &amp; (Duration) Units)</i>	

Specification Reference	ORL-ARP-XX-XX-TSP-E-000012	Design Ref		
Specification Title	Photovoltaic Array and Associated Equipment - Employers Requirements Specification		Revision	C01
Drawing Reference		Design Ref		
Drawing Title			Revision	
Schedule Reference		Design Ref		
Schedule Title			Revision	
Schematic Reference	ORL-ADX-XX-11-GSC-E-100001	Design Ref	Meter	
Schematic Title	Solar Photovoltaic System Schematic		Revision	C02

Product complies with Main Contract Scope		<input checked="checked" type="checkbox"/>	YES	<input type="checkbox"/>	NO	
Reason and explanation of derogation <i>(include document reference being derogated from)</i>						

<b>*List of Attachments</b>	<input checked="" type="checkbox"/> Data sheet	<input type="checkbox"/> Schedule	<input type="checkbox"/> Sample	<input type="checkbox"/> Manual	<input type="checkbox"/> COSHH	<input type="checkbox"/> Test certificate
	<input type="checkbox"/> Catalogue (extract)	<input type="checkbox"/> Warranty / T&Cs	<input type="checkbox"/> Other			

Notes &amp; Comments:



Product Technical Specification (TPS)

Page 2 - Contractor Review

Reviewed by Consultant Architect / Landscape <i>(if applicable)</i>		Reviewed by Consultant Structural / Civils <i>(if applicable)</i>		Reviewed by Consultant MEP <i>(if applicable)</i>		Reviewed by Consultant Fire <i>(if applicable)</i>	
Name:		Name:		Name:		Name:	
Status: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		Status: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		Status: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		Status: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	
Comment:  No comments		Comment:  N/A to Terrell scope to review		Comment:  No comments		Comment:  No comments	
Reviewed by Consultant Acoustic <i>(if applicable)</i>		Reviewed by Consultant Other <i>(if applicable)</i>		Reviewed by Consultant Other <i>(if applicable)</i>		Reviewed by Consultant Other <i>(if applicable)</i>	
Name:		Name:		Name:		Name:	
Status: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		Status: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		Status: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		Status: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	
Comment:  No comments		Comment:  No comments		Comment:  No comments		Comment:  No comments	
Recommended status by Lead Discipline Consultant							
<input type="checkbox"/> A - Accepted		<input checked="" type="checkbox"/> B - Accepted with comments		<input type="checkbox"/> C - Rejected			
(Collate/reference comments here from Design Team Review deemed applicable. Comments not collated/referenced here will be disregarded by the Contractor)							
Comments:  Please address comments							

Reviewed by Bouygues UK Design Lead

Name:	
Comment:  No comments	

Reviewed by Bouygues UK Package Lead

Name: S. Jenkins	
Comment:  Please define, location quantity and any third party connection requirements.	

Reviewed by Bouygues UK BIM

Name: Morgane Le Saux		COBie: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comment: No comment			

ORL-BYG-XX-XX-TPC-R-000219-S2-P06

Page 2



Product Technical Specification (TPS)

Page 3 - Client Team Review & Acceptance

Client Team Review (if applicable)

Supervisor

Name:

Comment:

Stakeholder Manager

Name:

Comment:

FM / AE / AP Coordinator

Name:

Comment:

Other

Name:

Comment:

Recommended status by Supervisor (Client Representative)

☐ A - Accepted

☐ B - Accepted with comments

☐ C - Rejected

(Collate/reference comments here from Client Team Review deemed applicable.  
Comments not collated/referenced here will be disregarded by the Contractor)

Comments:



Product Technical Specification (TPS)

Page 4 - To be completed by Bouygues UK Package Lead

Confirmation of Installed Product				
Product INSTALLED as signed off	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
BYUK Purchase Order Number (if applicable):				<input type="checkbox"/>
If <b>NO</b> , provide reason for non-installation below:				

**The emlite EMP1 Three phase metering range offers high quality accurate meters that are suitable for direct connected domestic, commercial, Solar PV and light industrial applications.**

## Features -

- Fully MID approved
- 4 quadrant power measurement (Import and Export, Active and Reactive Energy)
- Optional Power Quality Information - Volts, Current, Power etc.
- Optional pulsed outputs
- Optical communications port
- Solid brass terminals

The EMP1.az and EMP1.av are the entry models of the emlite three phase metering range. They are suitable for a host of different applications where basic consumption or generation metering is required. The EMP1.az and EMP1.av variants covered in this information sheet are of solid high quality construction and benefit from features normally found in more expensive metering.



- Accuracy Class A or B (MID) [active energy] and Cl 2 [reactive energy\*]
- 4 quadrant energy measurement
- Optional power quality information\*
- Configurable pulsed outputs\*\*
- Multiple terminal cover options (Short, Extended( Standard), Extended plus)
- Clear easy to read 8 digit LCD with specific symbols for different quantities.
- Solid Brass terminals
- Optional finger guard for main terminals

NB: \* denotes standard setting, \*\* pulse set for kWh import as standard

# Three Phase Whole Current Meter

**EMP1.AV only**

## Pulsed Output

An opto-isolated pulse output can provide data for collection by an energy management system or AMR data logger. These pulses are output via the meter's auxiliary terminals.

The output conforms to IEC 62053-31.



## Technical Data - Meter

### Electrical

Voltage	Nominal voltage	3 x 230v
	Voltage withstand	400V continuously
Frequency	Nominal frequency	50Hz, variation $\pm 5\%$
Current	Basic current (Iref)	5, 10, 15 and 20*
	Maximum (Imax)	100A

### Metrology

Accuracy	Active energy	Class B, to EN 50470 1-3*
	Reactive energy	Class 2, to IEC 62053-23

### Environmental

Temperature Range -25°C to +55°C

Ingress protection IP54, to BS EN 60529

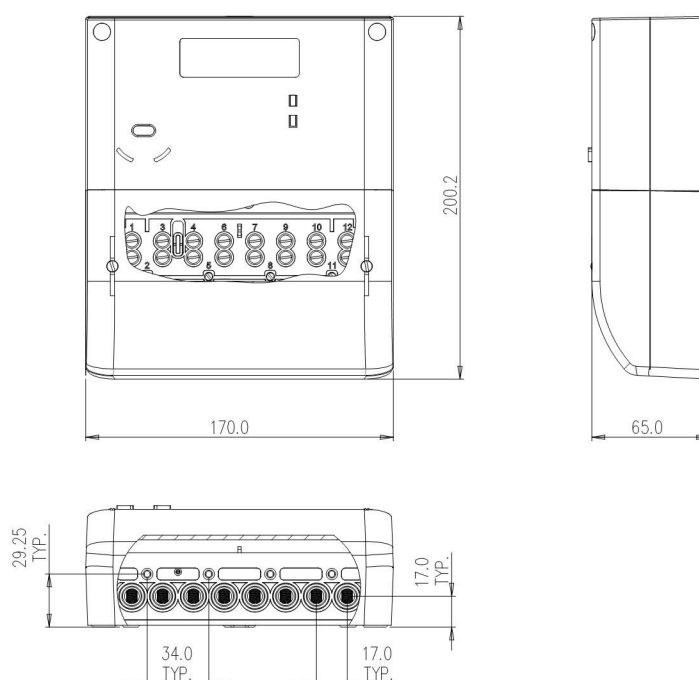
### Physical

Terminal arrangement DIN43857-Part 2, fixing centres of 150 $\pm$ 1mm

Main Terminal size 8.2mm $\varnothing \pm 0.2$

Terminal Construction Solid brass

## Dimensions



NB \* denotes standard setting

Supplied by: J W Smart Meters Ltd, 1 Church Lane, Normanton, West Yorkshire, WF6 2DE.

Email: sales@smartelectricitymeters.co.uk Tel: 01924 891049 Fax: 01924 220846