

## CP1273 redline extract drafted against BSCP601 'Metering Protocol Approval and Compliance Testing' v10.1 (conformed)

Changes are proposed to Sections 1.6.2, 3.4.11, 3.4.12, 3.4.22, and 3.4.24.

### 1.6.2 Definitions

[CP1261] Code of Practice Ten means Code of Practice Ten: Issue 1, version ~~1.0~~; dated ~~26 February~~ 2009 - CODE OF PRACTICE FOR ~~WHOLE-CURRENT~~-METERING OF ENERGY VIA LOW VOLTAGE CIRCUITS FOR SETTLEMENT PURPOSES

### 3.4.11 Meter -{5.3}

Establish the following parameters for the Meter under test:

(a)	record whether the Meter is of a Static or induction disc type;	<b>014</b>
(b)	record whether the Meter has an integral Outstation;	<b>015</b>
(c)	establish that the Active Energy Meter meets the requirements of: i. CoP 1 BS EN 62053-22 Class 0.2S; ii. CoP 2 BS EN 62053-22 Class 0.5S or BS EN 62053-11 Class 0.5; iii. CoP 3 BS EN 61036 Class 1 or BS EN 60521 Class 1; or iv. CoP 5 BS EN 61036 Class 2 or BS EN 7856 Class 2 [CP1261]v. CoP 10 SI 1998 No 1566 or SI 2006 No 1679	<b>016</b>
(d)	establish whether the Import Active Energy Meter meets the requirements of Schedule 7 of the Electricity Act 1989;	<b>017</b>
(e)	establish that the Reactive Energy Meter meets the requirements of; i. CoP 1 BS EN 62053-23 Class 2.0; ii. CoP 2 BS EN 62053-23 Class 3 or BS 5685 Part 4; iii. CoP 3 BS EN 61268 Class 3 or BS 5685 Part 4; or iv. CoP 5 BS EN 61268 Class 3 or BS 5685 Part 4. [CP1261]Not applicable to CoP10.	<b>018</b>
(f)	establish whether the number of measuring elements is one less or equal to the number of primary system conductors;	<b>019</b>
(g)	record whether provision has been made for the recording of measurement transformer ratios on the Meter's name plate; [CP1261]Not applicable to CoP10.	<b>020</b>
(h)	if the Meter is a static Meter with combined display and/or Outstation, then confirm that the ratios can be displayed and downloaded during the interrogation process; [CP1261]Not applicable to CoP10	<b>021</b>
(i)	Also confirm that any compensation factors that have been applied for	<b>022</b>

	measurement transformer errors and/or system losses, and where this is a constant factor applied at security level 3, can be similarly displayed and downloaded; [CP1261]Not applicable to CoP10.	
(j)	confirm that the Meter includes a non-volatile Meter register of cumulative energy for each Measured Quantity;	023
(k)	confirm that the Meter Register(s) do not roll-over more than once within the normal reading cycle [90 days at full load]; and [CP1261]Not applicable to CoP10.	024
(l)	where the Meter is to be used with an external Outstation, confirm that the Meter is fitted with at least one output pulse facility for each Measured Quantity (two output pulse facilities are required in the case of CoP1). [CP1261]Not applicable to CoP10.	025

### 3.4.12 Displays {5.4}

- (a) Confirm that the Metering Equipment is capable of displaying the following primary information (not necessarily simultaneously):

(a)	the total cumulative energy values for each Measured Quantity in actual scaled values can be displayed and stored in non-volatile memory;	026
(b)	the current time and date can be displayed;	027
(c)	the CT and/or VT ratios that have been programmed into the Meter can be displayed; [CP1261]Not applicable to CoP10	028
(d)	any compensation factor applied for measurement transformer errors and/or system losses can be displayed; and [CP1261]Not applicable to CoP10.	029
(e)	that, where the Meter is combined with the display and/or Outstation and a constant factor is applied, such factor is applied at security level 3. [CP1261]Not applicable to CoP10.	030

- (b) Confirm that the Metering Equipment is capable of enabling the display of the following information:

(a)	the Maximum Demand (“MD”) for kW (or MW as appropriate) per month can be displayed;	031
(b)	the Maximum Demand (“MD”) for kW (or MW as appropriate) for other programmable charging periods can be displayed;	032
(c)	the Maximum Demand (“MD”) for kVA (or MVA as appropriate) per month can be displayed;	033
(d)	the Maximum Demand (“MD”) for kVA (or MVA as appropriate) for other programmable charging periods can be displayed;	034
(e)	twice the kWh (or MWh as appropriate) advance from the commencement of the current Demand period can be displayed;	035
(f)	twice the kVAh (or MVAh as appropriate) advance from the commencement of the current Demand period can be displayed;	036

	[CP1261]Not applicable to CoP10.	
(g)	the cumulative Maximum Demand can be displayed;	<b>037</b>
(h)	the number of Maximum Demand resets can be displayed;	<b>038</b>
(i)	the multi rate display sequence, for at least 8 rates selectable over the calendar year, can be displayed;	<b>039</b>
(j)	a reverse running indication for Active Energy is provided (where appropriate). (Required for CoPs 3 and 5 only);	<b>040</b>
(k)	the indicated Maximum Demand is re-settable at midnight of the last day of the selected charging period;	<b>041</b>
(l)	the indicated Maximum Demand is re-settable for a part of a charging period; and	<b>042</b>
(m)	any manual reset button is sealable.	<b>043</b>

### 3.4.22 Level 1 Passwords

Using the Level 1 password, establish that the following data can be retrieved:

(a)	Outstation ID;	<b>093</b>
(b)	all programmable Demand Values;	<b>094</b>
(c)	all programmable cumulative Measured Quantities;	<b>095</b>
(d)	the Maximum Demand for kW and/or kVA per programmable charging period;	<b>096</b>
(e)	the multi-rate cumulative Active Energy values;	<b>097</b>
(f)	the VT and CT transformer ratios, where appropriate; [CP1261]Not applicable to CoP10	<b>098</b>
(g)	(for combined Meter and Outstation only), the VT and CT transformer error correction factor and/or system loss factor applied as a constant factor to the entire dynamic range; [CP1261]Not applicable to CoP10.	<b>099</b>
(h)	all alarm indications; and	<b>100</b>
(i)	Outstation time and date	<b>101</b>

### 3.4.24 Level 3 Passwords

Using the Level 3 Password, establish that all the functionality listed at Level 2 can be performed and in addition that the following programming can be performed:		<b>105</b>
(a)	Displays and Facilities as defined in Clause 5.4;	<b>106</b>
(b)	measurement transformer ratios as defined in Clause 5.3; [CP1261]Not applicable to CoP10	<b>107</b>
(c)	(for combined Meter and Outstation only), the VT and CT transformer error correction factor and/or system loss factor applied as a constant factor to the entire dynamic range; and [CP1261]Not applicable to CoP10.	<b>108</b>
(d)	passwords for Levels 1, 2 and 3.	<b>109</b>
(e)	where applicable, confirm it is possible to programme the schedule for automated transfer of Level 1 metering data via Level 3 access.	<b>110</b>

Establish that it is possible to read additional information within the Metering	<b>111</b>
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Equipment to enable the programmed information to be confirmed.	
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