

Service Apparatus Test Form

To be completed by authorised electricians. The tester and witness must complete the declaration at the completion of the test procedure.

Witness is not required if data recording instruments are used to record the test results.

Service connections to uni-pillars and mini-pillars with exposed live parts require a safety observer able to identify safety issues relevant to the task.

Pre-testing verification and visual checks					ck		Testing continued				Tick	
1.	 Use an approved tester to test the meter enclosure to ensure no voltage is present. 				17.		Energise the meter by replacing the SPD(s)/meter fuse(s). Confirm supply by testing between the independent earth line neutral and the line active(s) at the kW/h meter terminals. Do not record the					
2.	Site address						readings.					
3.	Meter number	leter number Meter reading				18.	For 3 phase connections ONLY check and record the phase rotation at the Anticlockwise kWh meter terminals			Anticlockwise	Clockwise	
4.	Ensure the correct operation of the testing instrument(s) on a known source of supply or on a proving device				а	19.	Check and record voltages between line neutral and line Red Ø 1 White Ø 2				Blue Ø 3	
							active(s) at the kwither	Expected results 225-255				
5.	Confirm correct operation	Electrical Installation	n # sorial no / Colib. doto#		2	20.	Check and record line impedance between line neutral and Red Ø 1 W		White Ø 2	Blue Ø 3		
	instruments. Record their serial number and calibration date.	Volt meter serial no / Calib. date	olt meter serial no / Calib. date#				line active(s) at the kvvn	Expected results <1 Ω				
		Impedance meter serial no / Cal	mpedance meter serial no / Calib date#			21.	Test and record phase to	est and record phase to phase voltages at the kWh meter. Red Ø 1 Wh			Blue Ø 3	
6.	Ensure the pillar is energised a details are not connected.	nsure the pillar is energised and confirm the relevant installation consumer mains per the above etails are not connected.						Expected results 390-440 V				
7.	For single metered installations a neutral link on the meter panel is not permitted. Ensure consumer's main switch is switched OFF, fit "Out of Service Warning Tag" and the SPD/meter fuses are switched off/removed.					22.	The SPD/meter fuses are switched off/removed . Prove the meter is de-energised by testing at the					
8.							independent earth and th					
9.	No active and neutral conductors are transposed between the Pillar→SPD→meter→customer main switch.					23.	Reconnect the load neutral tail into the kWh meter. Always double check all the conductors are in their correct terminals and are checked for tightness (pull test)					
10.	Ensure conductors are correctly wired into the kWh meter. (1Ø - ANNA) (3Ø - AA /AA /AA /NN) 1Ø			1Ø 3	ø	24.	Energise the meter by replacing the SPD(s)/meter fuse(s). Confirm supply has been restored by testing between the independent earth, line neutral and the line active(s) at the kWh meter terminals. Do not merel the reading					
11.	Ensure the LOAD neutral is disconnected from the kWh meter. Ensure the LINE and LOAD active(s) and the LINE neutral are properly secured (pull test) in the kWh meter.					25.	Apply a load test at the kWh meter terminals between the load neutral and load active(s) to prove the meter is operating correctly (the meter should pulse).					
12.	Install independent earth stake >3.0 metres from the consumer's earth and any potential earth.					26.	The SPD/meter fuses are switched off/removed . Prove the kWh meter is de-energised by testing at					
13.	13. Connect consumer mains at the pillar. Caution - the consumer's line neutral conductor could be live if connected incorrectly.						the KWh meter terminals. Lest between the line neutral and line active(s) (Critical test). Lest between independent earth and the line neutral and the line active.					
TESTING						27.	Ensure consumer's main switch is off.					
						28	Test between metal enclosure and independent earth. Measure volts between independent earth & <6 volte:					
14.	Test between independent earth and line neutral at the kWh meter terminal and record the voltage reading. Expected results 0-6 V Record the results volts						SACS Test is Complete - Ensure "Out of Service Warning Tag" is left fitted.					
15.	Test for continuity between the disconnected load neutral and customer earth electrode. Record the reading. If the reading is greater than 0,5 ohm identify and rectify consumer's						1A. FOR CONTRACTOR CONNECT ACCREDITED Electrical Workers ONLY Reconfirm SACS testing of steps 14 to 26. Electrical Workers ONLY Reconfirm SACS					
	MEN connection.					1B.	The SPD/meter fuses are switched on/replaced.					
16.	Test the voltage at the LINE side of the SPD(s) to 1. Independent earth. 2. Load neutral. 3.					1C.	Remove "Out of Service Warning Tag" Service Marining Tag" Service Marining Tag"					
	connected to earth and the consumer mains are connected to supply.					1D.	Test between metal enclosure and independent earth. Measure volts between independent earth &					
	Expected results 10/225-255V Record the results.					1E.	customer earth. volts Ensure correct operation of testing instrument(s) on a known source of supply or proving device					
			Note: The meter must r	volts	sed unless	s the E	the EW is Contractor Connect Accredited.					
I, the undersigned tester, certify that I have carried out tests 1 to 28 and 1 to 12 in this SAT form properly and consecutively in the order that ware numbered. The test results recorded in this SCT form are all true and correct and: The service apparatus tested are in a safe and fit condition for supplying electricity to the service address.												
Name	9:											
Seal# (if CC): EW No: EC					EC No:	Date: Time:						
I, the undersigned witness, certify that all the test 1 to 28 and 1A to 1E in this SAT form were carried out properly and consecutively in the order that they are numbered. I recorded the results of each test I observed as it was completed. (*not required when test is conducted using Electrical Installation Tester with built-in memory).												
Name: Sign						ignature:						
Seal#	Seal# (if CC): NAC#: EW No:				EC No:			Date:	Time:			