AS/NZS 3019 tests Resisential Home Address1

Mustafa Keskin
Electrical Product Manager
02 9519 3999
EMONA Instruments Pty Ltd
78 Parramatta Road
Camperdown 2050
www.instaltest.com.au
email: testinst@emona.com.au

Instrument data:

Model: MI 3155 Serial Number: 19190590 Calibration date: 22/05/2019

User:

CLIENT1/ADRESS1/DB1/CB1/Rlow 0.5 ohm			Pass
R low			Pass
Results			
R	0.23 Ω	Pass	
SubResults			
R+	0.2 Ω		
R-	0.2 Ω		
Cal	No		
Limits			
Limit (R)	0.5 Ω		
Parameters			
Output	LPE		
Bonding	Rpe		
Current	standard		
DateTime	28/11/2014 03:56:32		
CLIENT1/ADRESS1/DB1/CB2/Rpe MainSwitchboard-Earth electrode (0.5ohm)			Pass
R low			Pass
Results			
R	0.23 Ω	Pass	
SubResults			
R+	0.2 Ω		
R-	0.2 Ω		
Cal	No		
Limits			
Limit (R)	0.5 Ω		
Parameters			
DateTime	28/11/2014 03:57:08		
Output	LPE		
Bonding	Rpe		
Current	standard		
CLIENT1/ADRESS1/DB1/CB3/Re 1 ohm (C type 10A MCB)			Pass
Rpe			Pass

Signature: Created date: 01/04/2021

Results			
	Rpe	0.27 Ω	Pass
Limits			
	Limit (Rpe)	1.0 Ω	
Parameters			
	DateTime	28/11/2014 04:00:37	
	Bonding	Rpe	
	RCD	YES	

CLIENT1/ADRESS1/DB1/CB4/Re 0.5 ohm (C type 20A or 25A MCB)		Pass
Rpe		Pass

Results			
	Rpe	0.29 Ω	Pass
Limits			
	Limit (Rpe)	0.5 Ω	
Parameters			
	DateTime	28/11/2014 04:01:56	
	Bonding	Rpe	
	RCD	YES	

CLIENT1/ADRESS1/DB1/CB5/Re 0.4 Ohm (C type 32 MCB)		Pass
Rpe		Pass

Results			
	Rpe	0.29 Ω	Pass
Limits			
	Limit (Rpe)	1.0 Ω	
Parameters			
	DateTime	28/11/2014 04:06:04	
	Bonding	Rpe	
	RCD	YES	

CLIENT1/ADRESS1/DB1/AS3019 Inspections Section 3 and 4		Pass
General 3.2		Pass

Parameters	
DateTime	28/11/2014 03:52:04
Results	
(a) Cables show no undue evidence of insulation or sheath deterioration and have appropriate mechanical protection for the environment in which they are installed	Pass
(b) The exposed portions of the earth electrode show no evidence of corrosion, damage or poor connection of the main earthing conductor	Pass
(c) Metallic water pipe has not been replaced with plastic piping when the piping is used as the earth electrode	Pass
(d) Socket-outlets exhibit no mechanical damage and there is no evidence of overheating;	Pass
(e) Lamp holders exhibit no evidence of mechanical damage or evidence of undue overheating or arcing	Pass
(f) Switchboard and electrical equipment have no conductor insulation deterioration;	Pass
(g) RCDs, MCBs, fuses and switches show no evidence of mechanical damage;	Pass
(h) Semi-enclosed rewireable fuses, where fitted, have not deteriorated due to arcing and have no exposed live parts when the fuse carrier is fitted into the fuse base;	Pass
(i) Switchboard equipment is correctly labelled;	Pass
(j) Covers of fixed-wired appliances are not broken or missing giving access to live parts or basic insulation NOTE – Connections to electrical equipment must be enclosed and require the use of a tool to gain access	Pass
(k) Electrical fittings in damp areas have the correct International Protection (IP) rating and are appropriate for the zone	Pass
(l) Overhead lines and their entry points into buildings have no evidence of insulation deterioration, rusting of anchorages or deterioration of line-connection boxes; and	Pass

(m) Safety distance clearances have not been compromised by the introduction of, or modification to, any structures, or by raising of the ground-level under overhead lines. Refer to AS/NZS 300	Pass

Electrical equipment, conductrors & Consumer Mains	Pass

Parameters	
DateTime	28/11/2014 03:52:11

Results	
(a) Access to live parts and/or to basic insulation is not possible without the use of a tool, (mains entry box, lampholder and lamp access are exempt from this requirement); NOTE — Connections to electrical equipment must be enclosed and require the use of a tool to gain	Pass
(b) Electrical equipment and fixed-wired appliances forming part of the electrical installation are not damaged	Pass
(c) Conductors of cables are correctly identified and are connected to the correct terminals of fittings	Pass
d) Conductors are securely held in terminals of fittings and are not subject to tension at the terminations	Pass
(e) There is adequate insulation and distance between live conductors and between live conductors and earth	Pass
(f) Electrical equipment is adequately supported;	Pass
(g) Electrical equipment is designed for the environment in which it is located or is suitably enclosed	Pass
(h) Lamps do not exceed the rating of the fittings in which they are installed of the wiring shall be checked; and	Pass
(i) Fittings are undamaged and serviceable. If fittings show evidence of overheating, the condition	Pass
(j) Exposed metal liable to become alive is connected to earth.	Pass

Switchboards	Pass

Parameters	
DateTime	28/11/2014 03:52:19

Results	
(a) The current rating and breaking capacity of protective devices are appropriate for the circuits they protect;	Pass
(b) Semi-enclosed rewireable fuses, where fitted, have not deteriorated due to arcing and have no exposed live parts when the fuse carrier is fitted into the fuse base;	Pass
(c) Switches and protective devices are clearly labelled showing the circuit type they control or protect;	Pass
(d) Live conductors are insulated or provided with a barrier requiring the use of a tool to gain access;	Pass
(e) Neutral bars are supported on insulated fittings	Pass
(f) Where there are separate earth and neutral bars, earthing conductors are connected to the earth bar and neutral conductors are connected to the neutral bar;	Pass
(g) The main earthing conductor from the earth electrode is correctly connected at the main switchboard;	Pass
(h) There is a MEN connection between neutral and earth at the main switchboard;	Pass
(i) The switchboard is constructed and installed in such a manner that, in the event of fire, the spread of fire will be kept to a minimum; and	Pass
(j) Residual current devices (RCDs) installed for personal protection have a residual operating current of 30 mA or less	Pass

Main earthing conductor	Pass

Parameters	
DateTime	28/11/2014 03:52:26

Results	
(a) The main earthing conductor is the correct size;	Pass
(b) The main earthing conductor is connected to the earth electrode by a suitable corrosionresistant corrosionresistant	Pass
(c) The main earthing conductor terminations are accessible;	Pass
(d) Connections are mechanically sound and fixed by a secure system;	Pass
(e) Connections are protected against mechanical damage, corrosion, and any vibration likely to occur;	Pass
(f) Connections do not impose any appreciable mechanical strain on the component fittings of the connection;	Pass
(g) The main earthing conductor is correctly connected at the main switchboard; and	Pass
(h) Required labelling of the main earth connection is correct	Pass

Fixed wired appliances	Pass

Parameters

DateTime			28/11/2014 03:52:33
Results			
(a) They are correctly positioned and are suitable for the environment in which they are located			Pass
(b) Connections of conductors to electrical equipment are correct. When this connection is via flexible cord the cord shall be anchored at both the electrical appliance and the supply fitting;			Pass
(c) Electrical appliances are correctly mounted and protected against mechanical damage; and			Pass
(d) Covers are in place preventing access to live parts or basic insulation			Pass
Overhead lines			Pass
Parameters			
DateTime			28/11/2014 03:52:38
Results			
(a) The lines and their entry points into buildings have no evidence of insulation deterioration rusting of anchorages or deterioration of line-connection boxes; and			Pass
(b) Safety distance clearances have not been compromised by the introduction of, or modification to, any structures, or by the raising of the ground level under the lines. Refer to AS/NZS 3000 for details of clearances required			Pass
CLIENT1/ADRESS1/DB1/Rlow 0.5 ohm			Pass
R low			Pass
Results			
R	0.24 Ω	Pass	
SubResults			
R+	0.2 Ω		
R-	0.2 Ω		
Cal	No		
Limits			
Limit (R)	0.5 Ω		
Parameters			
Output	LPE		
Bonding	Rpe		
Current	standard		
DateTime	28/11/2014 03:55:17		
CLIENT1/ADRESS1/DB1/Rpe MainSwitchboard-Earth electrode (0.5ohm)			Pass
R low			Pass
Results			
R	0.24 Ω	Pass	
SubResults			
R+	0.2 Ω		
R-	0.2 Ω		
Cal	No		
Limits			
Limit (R)	0.5 Ω		
Parameters			
DateTime	28/11/2014 04:07:09		
Output	LPE		
Bonding	Rpe		
Current	standard		
CLIENT1/ADRESS1/DB1/Polarity and Correct connections using Voltage			Pass
Socket test basic (live)			Pass
Results			
Uln	243 V		

	Unpe	0 V	
	Ulpe	243 V	
Parameters			
	DateTime	28/11/2014 04:08:29	
CLIENT1/ADRESS1/DB1/Leakage Current Functional log (<10mA)			Pass
Leakage Current less than 10 mA ?			Pass
Parameters			
	DateTime		28/11/2014 04:09:18
Results			
	Custom Inspection		Pass
CLIENT1/ADRESS1/DB1/RCD 30mA 1 x Triptime			Pass
RCD t			Pass
Results			
	t ΔN	218.3 ms	
SubResults			
	Uc	1.6 V	
Limits			
	Limit Uc (Uc)	50 V	
Parameters			
	DateTime	28/11/2014 04:10:14	
	Use	fixed	
	Selectivity	G	
	RCD type	AC	
	I ΔN	30 mA	
	x IΔN	1	
	Random phase	No	
	Phase	(+)	
	Test	-	
	RCD Standard	AS/NZS 3017	
	Earthing system	TN/TT	