



Produkte
Products

Prüfbericht - Nr.: <i>Test Report No.:</i>	28105326 001	Seite 1 von 16 <i>Page 1 of 16</i>	
Auftraggeber: <i>Client:</i>	VEIGROUP Srl Piazza G.Zanella, 1/A - 36066 Sandrigo (VI) - Italy		
Gegenstand der Prüfung: <i>Test item:</i>	On-board weighing system		
Bezeichnung: <i>Identification:</i>	HELPER X MILLENNIUM 5	Serien-Nr.: <i>Serial No.:</i>	S/N 26.06256 Dust test S/N 26.06255 Climatic and salt test S/N 25.09860 Vibration test
Wareneingangs-Nr.: <i>Receipt No.:</i>	299	Eingangsdatum: <i>Date of receipt:</i>	15 th June 2012
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of test item at delivery:</i>	As delivered by the customer		
Prüfört: <i>Testing location:</i>	TÜV Rheinland Italia S.r.l. Via Mattei, 3 - 20010 Pogliano Milanese (MI) - Italy		
Prüfgrundlage: <i>Test specification:</i>	SAE J1455 rev. 2012		
Prüfergebnis: <i>Test Result</i>	Der Prüfgegenstand entsprichtoben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>		
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland Italia S.r.l. Via Mattei, 3 - 20010 Pogliano Milanese (MI) - Italy		
geprüft/ tested by:	kontrolliert/ reviewed by:		
23 th August 2012 R.C.Paderno <i>Datum</i> Date	 <i>Name/Stellung</i> Name/Position	23 th August 2012 P. Frigerio <i>Datum</i> Date	 <i>Name/Stellung</i> Name/Position
	<i>Unterschrift</i> Signature		<i>Unterschrift</i> Signature
Sonstiges/ Other Aspects:			
Abkürzungen:	P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations:	P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

TEST REPORT	
Test procedure for Environmental testing	
Report Reference No.	28105326 001
Date of issue	23 rd August 2012
Total number of pages	16
Testing Laboratory	TUV Rheinland Italia S.r.l.
Address	Via Mattei, 3 - 20010 Pogliano Milanese (MI) - Italy
Applicant's name	VEIGROUP Srl
Address	Piazza G.Zanella, 1/A - 36066 Sandrigo (VI) - Italy
Test specification:	
Standard	SAE J1455 rev.2012
Test procedure	§ 4.7.3 Dust test
	§ 4.12.3 Climatic test
	§ 4.3.3.1 Salt mist test
	§ 4.10.3 Mechanical vibration
Non-standard test method.....	---
Testing	
Date of receipt of test item(s)	29 th June 2012
Dates tests performed.....	From 11 th July 2012 to 27 th August 2012
Test Report Form No.	---
Test Report Form(s) Originator..	TRI
Master TRF	---
Test item description	On-board weighing system
Trade Mark	VEIGROUP Srl Piazza G.Zanella, 1/A - 36066 Sandrigo (VI) - Italy
Manufacturer	VEIGROUP Srl Piazza G.Zanella, 1/A - 36066 Sandrigo (VI) - Italy
Model/Type reference :	HELPER X MILLENNIUM 5
Ratings	12V or 24V

General product information

SAMPLES

Manufacturer **VEIGROUP Srl**
 Piazza G.Zanella, 1/A - 36066 Sandrigo (VI) - Italy

Product On-board weighing system

Model HELPER X
 MILLENNIUM 5



Fig. 1 Samples without printer

General product information

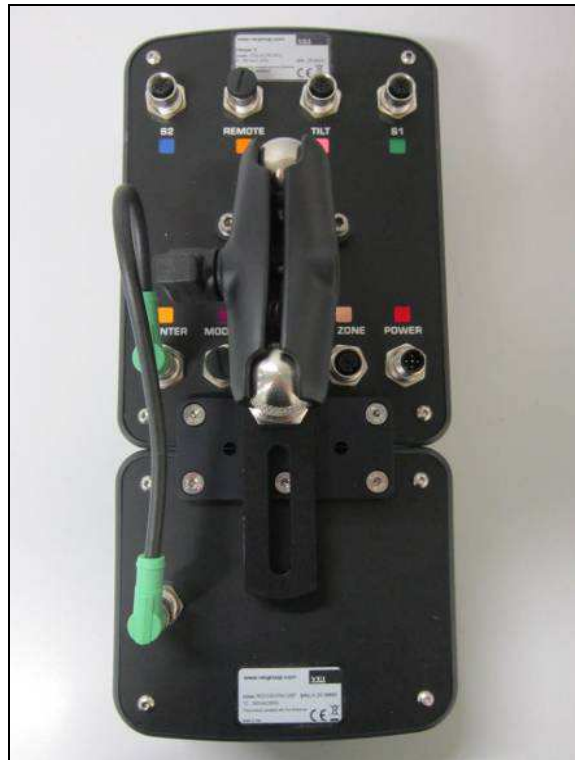


Fig. 2 Samples with printer

Photo documentation

Dust test



Fig. 3 Sample in dust chamber



Fig. 4 Samples in the chamber after dust test

Photo documentation



Fig. 5 Samples during the visual inspection after dust test

Climatic cycle



Fig. 6 Sample in the climatic chamber

Photo documentation



Fig. 7 Coloured labels after the climatic test

Salt mist test



Fig. 8 Positioning of the sample inside the salt mist chamber

Photo documentation



Fig. 9 Sample after salt mist test



Fig. 10 Particular of the connectors on the rear side of the sample

Photo documentation



Fig. 11 Threaded insert inside the sample



Fig. 12 Particular of the screw for the fixing of the cover

Photo documentation

Vibration and shock



Fig. 13 Sample on the shaker

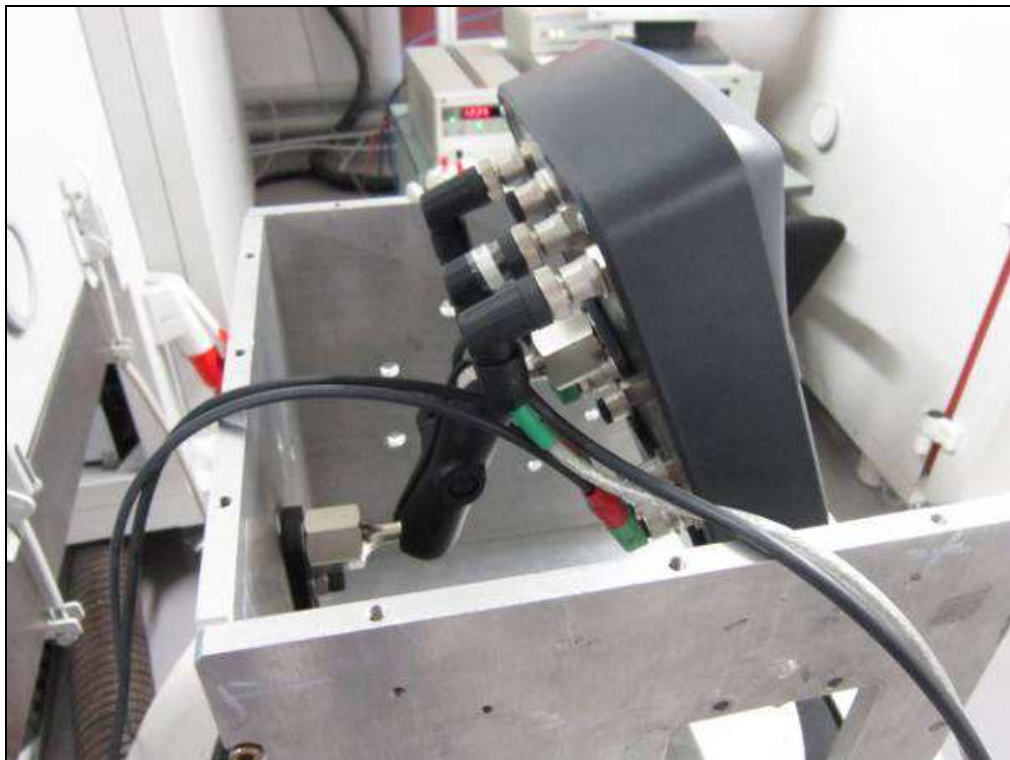
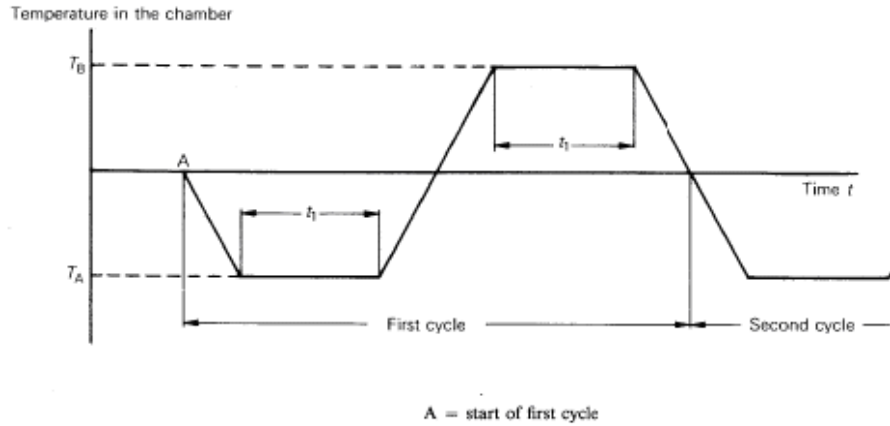
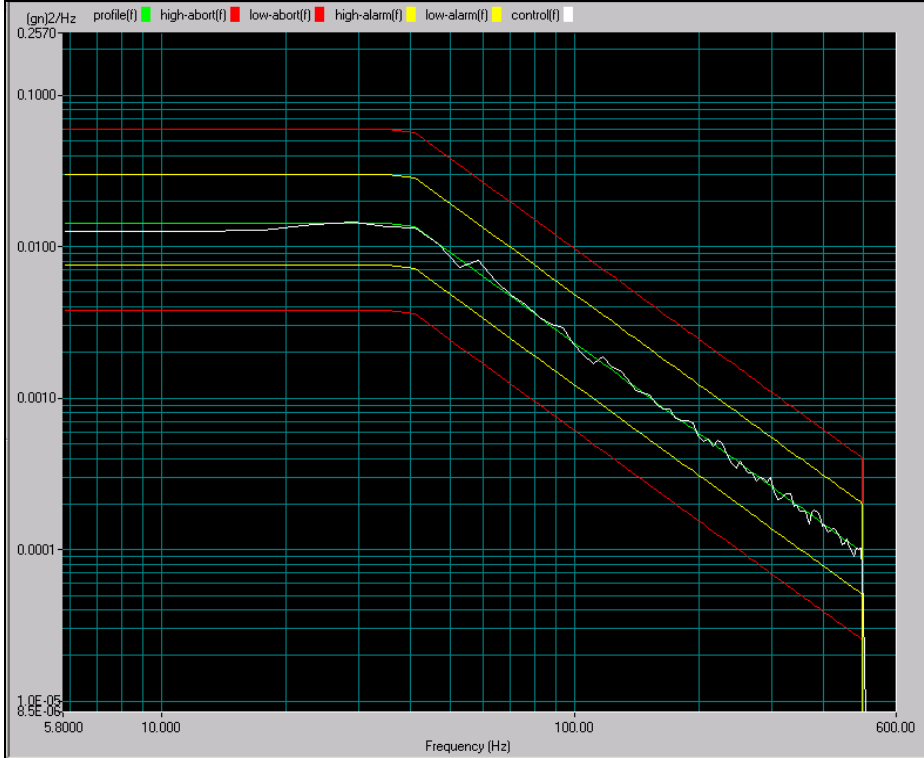


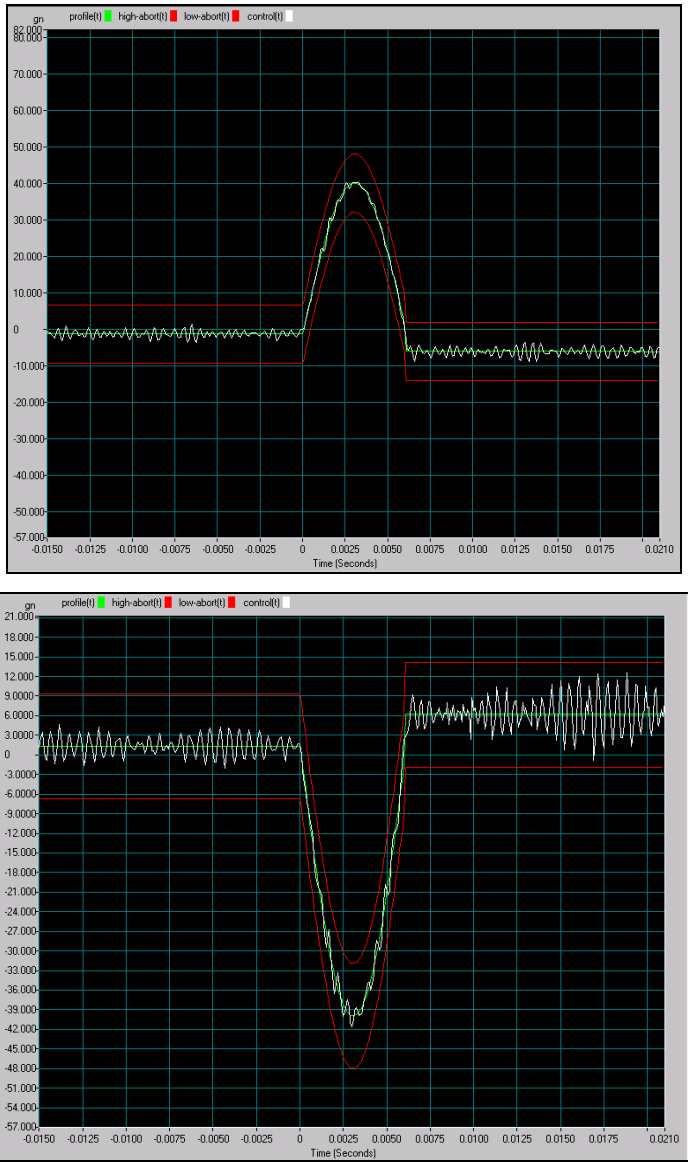
Fig. 14 Connection of the cables to the samples

<u>Tests and results:</u>		
Clause	Requirement + Test	Verdict
§ 4.7.3	General requirement: dust test	
	<p>The sample is subject to the test in the same condition of IP5X test in accordance with DIN 40050-9.</p> <p>The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which 50µm and the nominal width between wires 75µm. The amount of talcum powder to be used is 2kg.</p> <p>The enclosure under test is supported inside the test chamber. Any drain-hole normally open shall be left open for the duration of the test.. Every 55s, the dust flows in the chamber for 5s. The test shall be continued for a period of 8h</p> <p>The talcum powder shall not accumulate in a quantity or location such that it could interfere with the correct operation of the equipment or impair safety. No dust shall deposit where it could lead to tracking along the creepage distances</p>	
	Final measurements	
	There is some dust inside the sample, but not on live parts.	P

<u>Tests and results:</u>		
Clause	Requirement + Test	Verdict
§4.12.3	General requirement: climatic test	P
	<p>The sample is subject to the climatic test shown in Fig.15, with the following characteristics:</p> <ul style="list-style-type: none"> ○ initial temperature: 25°C ○ T_A: Minimum temperature -40°C ○ t_1: 150min ○ T_B: Maximum temperature 85°C ○ time to change from T_A to T_B 30min <p>Cycle repeated for 96h</p>  <p style="text-align: center;">A = start of first cycle</p> <p style="text-align: center;">Fig. 15 Graph of the applied climatic cycle</p>	
	Final measurements	
	After the test the sample does not present any defect	P

<u>Tests and results:</u>		
Clause	Requirement + Test	Verdict
§ 4.3.3.1	General requirement: salt mist test	P
	<p>The sample is exposed to a solution of 5 parts salt to 95 parts water, atomized at a temperature of 35°C. The device is exposed to the salt mist for a period of 240h.</p> <p>When the test is concluded, the sample should be evaluated for visual evidence of salt precipitation or accumulation. The sample is gently rinsed in clean running water and then immediately dries with compressed air.</p> <p>Minimal traces of corrosion should be allowed (see from Fig.8 to Fig.12)</p>	
	Final measurements	
	There is only a small area of corrosion on one of the threaded insert	P

Tests and results:		
Clause	Requirement + Test	Verdict
§ 4.3.3.1	General requirement: vibration and shock test	P
	<p>The sample with printer, blocked on the fixture, is put on the shaker and subject to the vibration profile shown in the Fig.16</p> <p>Duration of the test: 3h</p>  <p style="text-align: center;">Fig.16 Vibration profile</p> <p>The sample is powered in both the tests. The power supply is 12V</p>	
	Final measurements	
	The sample after the test does not present any deformation or visual defect and it is well-functional	P

Tests and results:		
Clause	Requirement + Test	Verdict
§ 4.3.3.1	General requirement: Shock test	P
	<p>The sample with printer, blocked on the fixture, is put on the shaker and subject to 10 positive and 10 negative shock (see the profile in Fig.17)</p>  <p>Fig.17 Positive shock and negative shock profiles</p> <p>The sample is powered in both the tests. The power supply is 12V</p>	
	Final measurements	
	The sample after the test does not present any deformation or visual defect and it is well-functional	P

List of used instruments:			
Description	Manufacturer	Model	Identifier
Dust chamber	Perani	---	87020097
Climatic chamber	Angelantoni	Challenge 600	87020105
Salt mist chamber	Weiss	200478/9-S2000	87020197
Shaker with control	LVS Dactron	V830	87020095

The client provided the following cable for the samples with printer:

- type S1;
- type S2;
- type TILT;
- type PRINTER;
- type W ZONE;
- type POWER

-----END OF THE TEST REPORT-----