




	EX MEASUREMENT REPORT		 
Only IPx6 test			
ExTR Reference Number	CH/SEV/ExTR17.0017/00		
ExTR Free Reference Number.....	17-Ex-0085.02		
Compiled by + signature (ExTL)....	Urban Strebel Production Qualification		
Reviewed by + signature (ExTL)....	Thomas Köhntopp Production Qualification		
Date of issue.....	2018-11-15		
Ex Testing Laboratory (ExTL)	Eurofins Electrosuisse Product Testing AG		
Address	Luppenstrasse 1, 8320 Fehraltorf, SWITZERLAND		
CB Testing Laboratory	Eurofins Electrosuisse Product		
Address	Testing AG Luppenstrasse 3, 8320 Fehraltorf SWITZERLAND		
	Applicant's name	AGRO AG	
	Address	Korbackerweg 7, 5502 Hunzenschwil, Switzerland	
Standards	IEC 60529: 2013 ed 2.2 EN 60529: 1991+A1: 2000+A2: 2013		
Test procedure	IP- Test		
Possible test case verdicts:			
- test case does not apply to the test item..... : N / A			
- test item does meet the requirement : Pass			
Test item description	Cable gland		
Model/type reference.....	Type EX Compact MS KB, EX Compact A2 KB and EX Compact A4 KB Ex Compact MS, Ex Compact A2, Ex Compact A4, Ex Compact M16, M25 and M63 Ex Compact KB with clamps M16, M25 and M63		
Code (e.g. Ex _ II_ T_).....	Ex db eb IIC Ex tb IIIC		
Manufacturer's name.....	AGRO AG		
Address	Korbackerweg 7, 5502 Hunzenschwil, Switzerland		
Particulars: Test item vs. Test requirements			
Rated ambient temperature range (°C).....	-60 °C ... +105 °C		
Maximum surface temperature	passive element		
Description of Test			
Only the following tests were performed:			
- Delivery check	- Resistance to water with the 12.5 mm nozzle IPx6		

List of instruments used:				
description	type	Last calibration	Next calibration	Equip. No.
Jet head IPx6	Jet head IPx6 12.5 mm	28.11.2017	28.11.2018	18.6621.02.4
Flow meter	Flow meter 10 – 120 l/min	13.11.2017	13.11.2018	18.6621.02.1
Jet head interconnecting piece	Jet head interconnecting piece	28.11.2017	28.11.2018	18.6621.02.2
Temperature sensor	Temperature sensor IPx1 – IP x6	30.11.2017	30.11.2018	18.6621.00.3
Temperature sensor	Temperature sensor	30.11.2017	30.11.2018	18.6621.03.02


Overview test results	
Test description	Verdict
Overall test results	Pass

Test case	Standard and clause	Verdict
Delivery check	---	Pass
Test with oscillating tube (for second characteristic numeral IPx6)	IEC/EN 60529 clause 14.2.6	Pass

Deliver			
Clause	Requirement – Test	Result – Remark	Verdict
---	Tight box with two cable glands for ribbon cable	The state of the box seems ok.	Pass



Only the cable glands for ribbon cable are under test.

IEC/EN 60529 clause 14.2.6. IP x6 with 12.5 mm nozzle			
Clause	Requirement – Test	Result – Remark	Verdict
14.2.5.	Test for second characteristic numeral 6 with 12.5 mm nozzle	No water is found inside.	Pass
<p style="text-align: center;">preconsitions: No thermal endurance test was carried out in advance on these test specimens.</p> <p style="text-align: center;">Date: 2018-10-24</p> <p style="text-align: center;">IPx6, Internal diameter of the nozzle: 12.5 mm</p> <p style="text-align: center;">Delivery rate: 100 l/min ±5 %</p> <p style="text-align: center;">Core of the substantiel stream: circle of approximately 120 mm diameter at 2.5 m distance</p> <p style="text-align: center;">Test duration per square metre of enclosure surface area likely to be sprayed: 1 min</p> <p style="text-align: center;">Minimum test duration: 3 min</p> <p style="text-align: center;">Distance from nozzle to enclosure surface: between 2.5m to 3 m</p> <p style="text-align: center;">Room temperature: approximately 20 °C</p> <p style="text-align: center;">Water temperature: approximately 20 °C</p>			
			
<p>Test setup with the test box on the rotary table</p>			



Unit under test during the 3 minutes test with 100 litre per minutes.



No water is found inside the unit under test around the seal.



No water is found inside the unit under test around the seal.



No water is found inside the unit under test around the seal.



No water is found inside the unit under test around the seal.

No water is found inside the unit under test box and inside the cable glands.

List of instruments used:		
description	type	Equip. No.
Jet head IPx6	Jet head IPx6 12.5 mm	18.6621.02.4
Flow meter	Flow meter 10 – 120 l/min	18.6621.02.1
Jet head interconnecting piece	Jet head interconnecting piece	18.6621.02.2
Temperature sensor	Temperature sensor IPx1 – IP x6	18.6621.00.3
Temperature sensor	Temperature sensor	18.6621.03.02

See page 2 for calibration information

Appendix
General remarks: none.