





## CERTIFICATE OF COMPLIANCE (ISO TYPE 3 CERTIFICATION SYSTEM)

Issued to	Rotronic AG
Address	Grindelstrasse 6, CH-8303 Bassersdorf, Switzerland
Project Number	LR1339-1R1
Product	Rotronics HygroFlex-EX Series Dual-Channel Humidity and Temperature Meter, consists of a Signal Converter and up to two Measuring Sensors connected either directly to the Signal Converter or remotely via cable.
Model Number	<p><b>HygroFlex Signal Converters (Transmitters)</b>            HF520-EX-WxxxDxxx, HF520-EX-WxxxXxxx, HF520-EX-DxxxDxxx and HF520-EX-DxxxXxxx</p> <p><b>Measuring Sensors</b>            HC2-IMxxx-EX, HC2-IExxx-EX, HC2-SM-EX and HC2-LDPxxx-EX</p> <p><b>Overall System</b>            HF520-EX-xxxxxxx + and HC2-xx(xxxx)-EX            Note: Any combination of listed HygroFlex Signal Converter and Measuring Sensor.</p>
Ratings	<p><b>Signal Converter</b>            Associated Apparatus, Provides IS circuits for Class I, Div 1, Groups ABCD T5 Class I, Division 2, Groups ABCD T5; Class II, Div 2, Groups EFG T80C            Ex e mb [ia Ga] IIC T5 Gb            Ex tb [ia Da] IIIC T80°C Db            Class I, Zone 1, AEx e mb [ia Ga] IIC T5 Gb            Class II, Zone 20/21, AEx tb [ia Da] IIIC T80°C Db            Rated: 10 – 28 Vdc, 2W            Out1: 4-20mA / 2-Wire Current Loop            Out2: 4-20mA / 2-Wire Current Loop            Tamb = [-10 °C...+60 °C] with LCD            Tamb = [-40 °C...+60 °C] without LCD</p> <p><b>Measuring Sensor</b>            Intrinsically Safe, Ex ia, Class I, Div 1, Groups ABCD T5...T4 Class II, Groups EFG T80°C...T110°C            Ex ia IIC T5...T4 Ga/Gb            Ex ia IIIC T80°C...T110°C Da/Db            Class I, Zone 0, AEx ia IIC T5...T4 Ga/Gb            Class II, Zone 20/21, AEx ia IIIC T80°C...T110 °C Da/Db            Rated: 3.3Vdc, 20mW            Out: UART            Tamb = [-40 °C...+60 °C] only for T5 resp. T80 °C            Tamb = [-40 °C...+85 °C] only for T4 resp. T110 °C</p>



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<b>File</b>
<b>LR1339</b>

Ratings - Continuation	<p><b>Full System</b>  Class I, Div 1/2, Groups ABCD T5...T4, Class II, Div 1/2, Groups EFG T80°C...T110°C  Ex e mb [ia Ga] IIC T5...T4 Ga/Gb  Ex tb [ia Da] IIIC T80°C...T110°C Da/Db  Class I, Zone 0/1, AEx e mb [ia Ga] IIC T5...T4 Ga/Gb  Class II, Zone 20/21, AEx tb [ia Da] IIIC T80°C...T110°C Da/Db  Rated: 10 – 28 Vdc, 2W  Out1: 4-20mA / 2-Wire Current Loop  Out2: 4-20mA / 2-Wire Current Loop  Tamb = [-10 °C...+60 °C] with LCD  Tamb = [-40 °C...+60 °C] without LCD  Tamb = [-40 °C...+85 °C] Sensor only for T4 resp. T110 °C  Tamb = [-40 °C...+60 °C] Sensor only for T5 resp. T80 °C</p>
Applicable Standards	<p><b>Canada</b>  CSA C22.2 No. 142-M1987 (R2009), CSA C22.2 No 157-92,  CSA C22.2 No. 60079-0:11, CSA C22.2 No. 60079-7:11,  CSA C22.2 No. 60079-11:11, CSA C22.2 No. 60079-18:12,  CSA C22.2 No. 60079-26, CSA C22.2 No. 60079-31</p> <p><b>US</b>  UL 508 17<sup>th</sup> Edition, ANSI/ISA 60079-0 2009, ANSI/ISA 60079-7 2009,  ANSI/ISA 60079-11 2012, ANSI/ISA 60079-18, ANSI/ISA 60079-26,  ANSI/ISA 60079-31</p>
Factory/Manufacturing Location	Same as Applicant
<p><b>Statement of Compliance:</b> The product(s) identified in this Certificate and described in the Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.</p>	
	
<p>Issued By: <b>Dave Adams, P. Eng.</b>  Manager, Hazardous Locations [Ex Equipment] Department]</p>	
Signature:	
Date: November 1, 2016	