

EqHub Stage 2 Mapping



Magne Valen-Sendstad Q2 2010

1. Define Object In Focus







Document & Other Identifiers References

2 "Installation and removal procedures"



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DINV

3 "Measurement and arrangement drawing"



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DNV

4 "Operation and maintenance instructions"





5 "Product description and ordering information" MANAGING RISK



6 "Sectional drawing"









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28. "Approval authority"



33 "EX certificate number"







32 "CE marking"





Product



7 "Actuator service"





8 "Fail action"





9 "Manual override"





10 "Shut-off mechanism"





11 "Supply pressure range"





12 "Thrust range"





13 "Torque range"











16 "Frequency band designation"



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17 "High pressure side connection design" MANAGING RISK







18 "Low pressure side connection design"

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19 "Process Connection"





20 "Signal connection"





21 "Supply Connection"





21 "Supply Connection" SUPERSEEDED





25 "Body material"











26 c "Enclosure material" (THERMOSTATIC SWITCH / THERMOSTAT)







27 "Gauge mounting"



29, 30, 31, 34, 35, 36, 86 Pattern for interface relating engineering domain codes for classes.





37 "Conductivity sensor" (Transmitter, Level, Conductivity)






38 "Diaphragm seals"



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39 "Element arrangement" (ELECTRICAL TEMPERATURE TRANSMITTER)





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42 a "Filling fluid", Pressure transmitters



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42 C "Filling fluid", Diaphragm seal





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43 "Measuring method"





44 "Accuracy class"



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46 "Dial diameter"







48 "Filling fluid in Case"

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52 "Measuring principle"





54 "Insertion length"





58 "Window type"





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59 "Action when activating"



15-22.06.2010



60 "Adjustable temperature range"







61 "Circuit description"



62 "Proximity measuring method"



15-22.06.2010





18.06.2010

63 "Regulating method"



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64 Sensing element material (ELECTRICAL PRESSURE TRANSMITTER, ELECTRICAL DIFFERENTIAL PRESSURE TRANSMITTER, PRESSURE GAUGE, DIFFERENTIAL PRESSURE GAUGE)



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DNV

64 "Sensing element material" (PROXIMITY SWITCH)







65 "Sensing range"



67 "Adjustable level range"







77 "Output Signal"



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79 "Protective coating"





81 "Directional valve type"

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85 "Gasket material"



87 "Non process cover material"







88 "Normal position"



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class whose members are intended to be 'open by design' and that something that can take any position is put in an 'open' position.



92 "Return pilot"





93 "Seat material"





97 "Bonnet material"



99 "Capillary tube filling fluid"



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101 "Diaphragm material"



102 "Flange material"





103 "Flushing ring material"









DNV
109 "Manufacturer reference standard"







110 "Multi-hole"





104 "Immersion pipe outlet"





111 "Nominal diameter"



114 "Plate material"





117 "Process connection material", Temperature element





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118 "RTD type"







119 "Sheath material", Temperature element



119a "Sheath material", Optional extension for Thermocouple





119b "Sheath material", Optional extension for Resistance temperature element????





124 "Stem material







125 "Temperature element design standard"



IEC 584-2 for thermocouple classes only?

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128 "Temperature element wire configuration"



129 "Temperature scale configuration"





130 "Thermocouple type"



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131 "Thermometer accuracy class"





132 "Thermometer connection form"







133 "Thermometer form"



http://www.wisnercontrols.com/pdfs/Taylor%20thermometer%20specs%20pdf.pdf







137 "Thermowell construction"







138 "Thermowell shank construction"





NOTES



ATEX Group and Category

LEVEL OF PROTECTION	CATEGORY GROUP I GROUP II		PERFORMANCE OF PROTECTION	CONDITIONS OF OPERATION*
Very High	M 1		Two independent means of protection or safe even when two faults occur independently of each other.	Equipment remains energised and functioning when explosive atmosphere present
Very High		1	Two independent means of protection or safe even when two faults occur independently of each other.	Equipment remains energised and functioning in Zones 0,1,2 (G) and/or 20, 21, 22 (D)
High	M 2		Suitable for normal operation and severe operating conditions. If applicable also suitable for frequently occurring disturbances or for faults which are normally taken into account.	Equipment de-energised when explosive atmosphere is recognised
High		2	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account.	Equipment remains energised and functioning in Zones 1, 2 (G) and/or 21, 22 (D)
Normal		3	Suitable for normal operation.	Equipment remains energised and functioning in Zone 2 (G) and/or 22 (D)

Source: atexguidelines_may2007.pdf

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Explosive Atmospheres





ISO 15926-4 REPRESENTATION FORM CLASS





ISO 15926-4 CLASS OF IDENTIFICATION





This need further consideration. All we actually know is that the string is a MANUFACTURERS IDENTIFICATION CODE, we do not know the basis for the format, is it as defined by Emerson Process Management, or is it a SHAREcat format. The answer to these questions will give rise to more precise mapping. (Use of subclasses)

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Template Signature Instances



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Measuring, calibrated, accuracy range and accuracy





Containment





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Jan's migration of point values from Snapshot E MANAGING RISK





Jan's migration of point values from Snapshot E MANAGING RISK



Count

MANAGING RISK DNV



Inconsistency Part 2/Part 3 on integer and real

Inconsistency between Jan's migration to RDS and Part 7, e.g. Figure 2 – Relation: Permitted Ambient Temperature















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