

FUNCTIONAL SAFETY DATA SHEET®

Manufacturer Bopp & Reuther Messtechnik GmbH

Am Neuen Rheinhafen 4

67346 Speyer Germany

Product(s) RQ AG81/82/83

Intended application The above listed product(s) are used as

turbine meters

Basis of testing IEC 61508:1999

Report The test report 195.101.3 of 2008-08-01 is an

integral part of this data sheet

Functional Safety Data

Type A

Hardware Fault Tolerance 0

Safe Failure Fraction 64.9 %

Safe Detected Failure Rate 0.00 /hour

Safe Undetected Failure Rate 18.62E-9 /hour

Dangerous Detected Failure Rate 0.00 /hour

Dangerous Undetected Failure Rate 50.64E-9 /hour

No Effect Failure Rate 74.89E-9 /hour

MTTFd 2254 years

MTTFs 1221 years

PFD See report for sample calculations

PFS See report for sample calculations

Fit for use in Safety Integrity Level 2

Fit for use in Spurious Trip Level[™] 2

2008-08-11

Date

Martenous

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