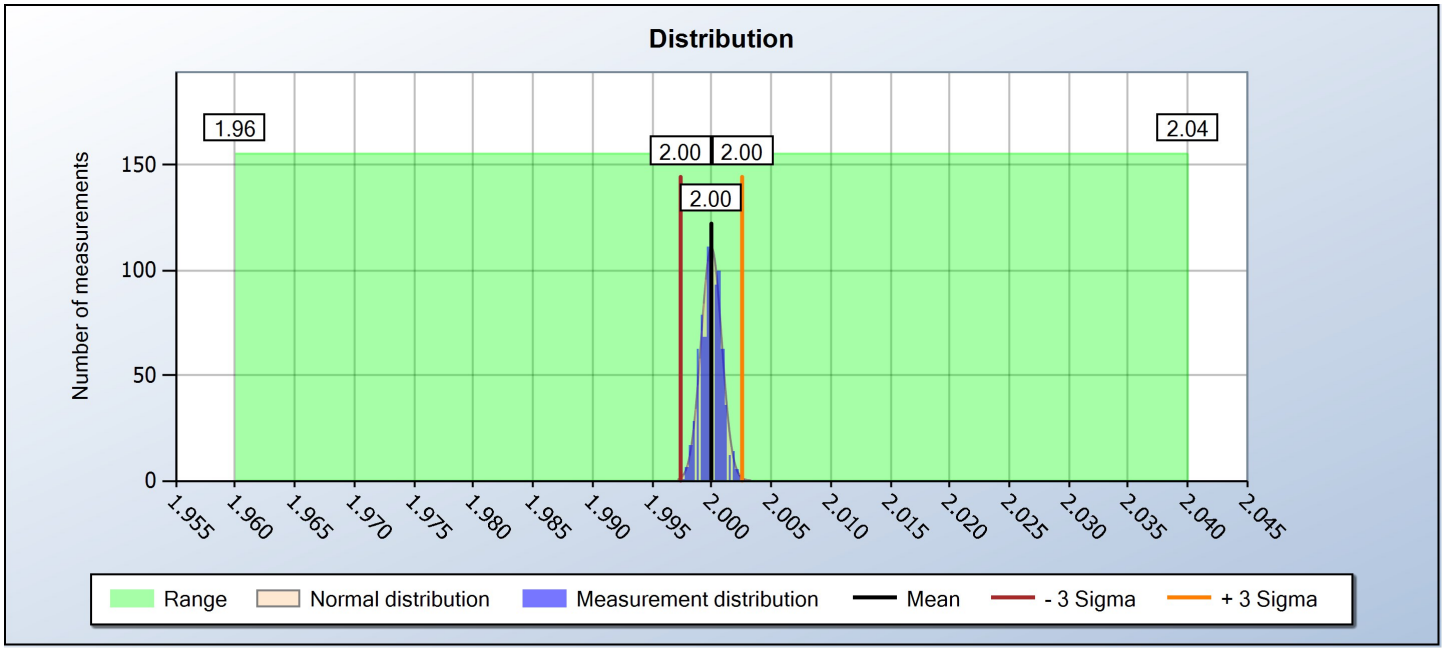
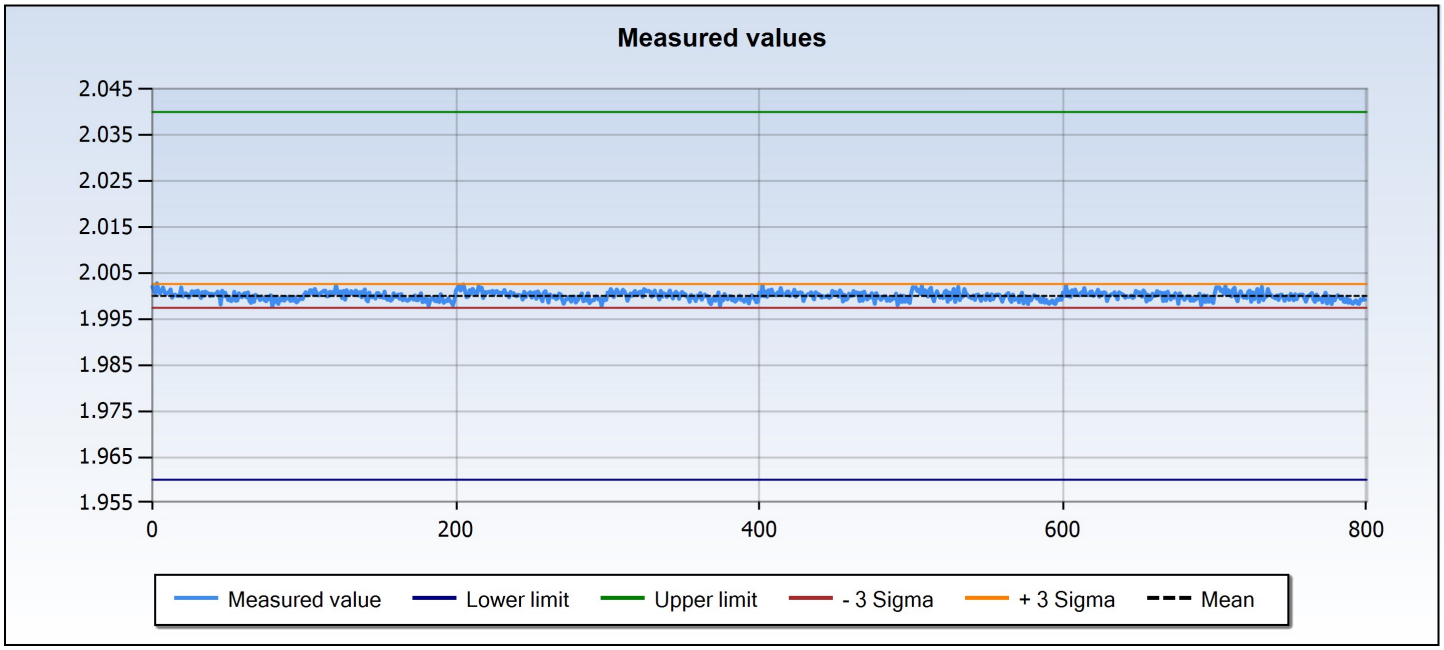
Customer: Example corporation **Date:** 29.04.2019 11:16:05 **Page:** 1/1 **Version:** V1.0 machinecapabilitystudy.frx	**Machine capability study** **Current Measurement** Typ MCD2403 Step 90 - Channel 1 10V current [A]	MCD ELEKTRONIK GMBH





General	
Number of measured values	800
Lower limit	1.960
Upper limit	2.040
Tolerance	0.080
Aim	2.000
Minimum	1.998
Maximum	2.003
Mean	2.000
Variance	0.000001
Sigma	0.0009
Mean - 3 Sigma	1.9974
Mean + 3 Sigma	2.0026

Machine capability	
Cm (>=1.66)	15.488
Cmk (>=1.66)	15.480

$$Cm = \frac{UL - LL}{6s}$$

$$Cmk = \frac{\min(UL - \overline{\chi}, \overline{\chi} - LL)}{3s}$$

$\overline{\chi}$: Mean
UL: Upper limit
LL: Lower limit
s: Standard deviation