

Calibrators (measurement ranges and limits of permissible measurement error)

Parameter	Calmar SP-01 69182-2017	Calibrator KISS-12 Teplobribor 59882-15	UPS-III Druck 60810-15	Fluke 715 29194-05	Fluke 709H 60323-15	AM-7070 China Aktakom not listed in N/R
Measured DC Voltage	± 15 V ±0.01%	±75 mV ± (0.01% x +8 µV) ±50 V ± (0.02% X +15 mV)	60 V 0.02% rdg +4 counts	0...100 mV 0.02 % rdg + 2 counts	0 - 30 V 0.01% rdg + 2 counts	15 V ±(0.02% rdg+3 counts)
Generated DC Voltage	±10.5 V ±1.0 mV	±75 mV ± (0.01% x +8 µV) ±50 V ± (0.05% X +25 µV)	24 V			15 V ±(0.015% rdg+3 counts)
Measured DC Current	0 to ±35 mA ±0.01%	±24 mA ±(0.005% X +15µA)	±24 mA 0.01% rdg +2 counts	±24 mA 0.015 %	0 - 24 mA 0.01% rdg + 2 counts	±24 mA ±(0.015% rdg+3 counts)
Generated DC Current	±23.5 mA ±0.0024 mA	±24 mA ± (0.015% X +10µA)	±24 mA 0.01% rdg +2 counts	±24 mA 0.015 % rdg + 2 counts	0 - 24 mA 0.01% rdg + 2 counts	±24 mA ±(0.015% rdg+3 counts)
Measured Resistance	-	0 to 4 kΩ	conductance	-		-
Generated Resistance		0 to 4 kΩ	-	-		-
Pulse repetition rate of generated pulse signal (F_{IN}) (on the F_{IN} input)	0 to 22500 Hz ±(0.1 + 3·10 ⁻⁵ · F_{IN}) Hz	0 to 50 000 Hz ± (0.02% X + 2 counts)				
Generated pulse signal	0 to 22500 Hz ±3·10 ⁻⁵ ·F Hz	0 to 50 000 Hz ± (0.02% X + 2 counts)	-	-		-
HART protocol	no	N/A	yes	yes	yes	no