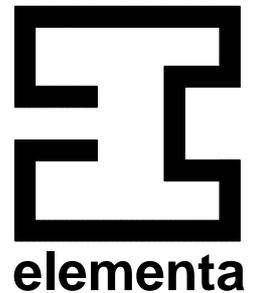


CURRENT CALIBRATION UNIT

Source, soak, transmission tester & measurement

STS 3000

Scale 1 : 2



Features:

- * Current source and soak for 0-20mA
- * 0, 4, 12 & 20mA directly selectable
- * Accuracy $\pm 0,05\%$ v.E. ± 1 Digit
- * actual current indication on large display
- * current measurement & transmitter test function
- * secure against false operation up to $\pm 60V$ at the output
- * practicable screw and plug connection
- * battery operation up to 100 hours
- * compact robust housing

Features

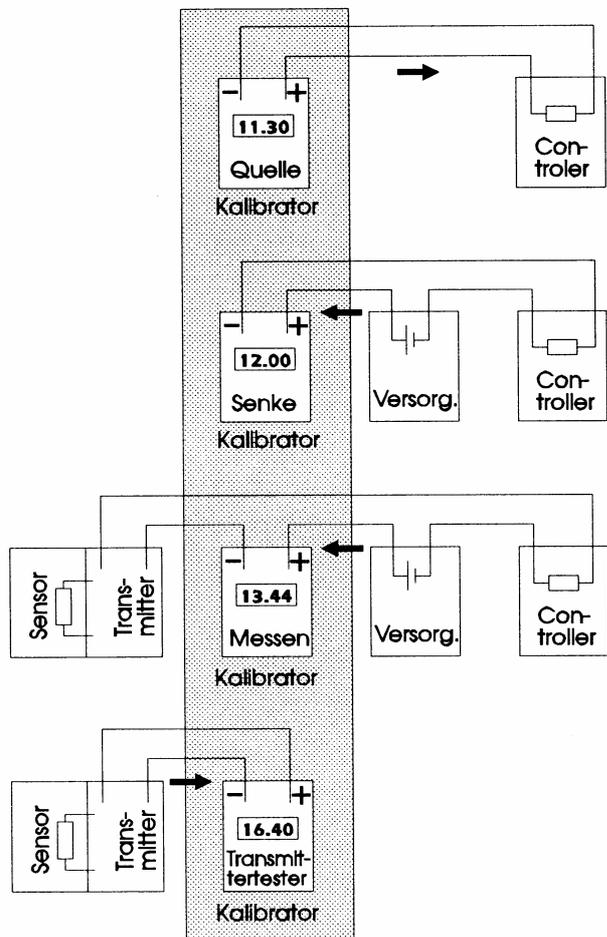
Application: For calibration, measurement, service and repair of process equipment, which

Applications

operate in a 20mA range e.g. for transmitters, meter indicators, controllers and recorders including their connection leads. The compact design and the long battery life makes this calibrator highly suitable for remonte applications.

Selectable Operations modes:

Operations modes



As current source (Quelle)

For checking a meter or a controller with a current input

As current sink (Senke)

To simulate a sensor with a current loop output. In this mode it is possible to check the voltage supply, the controller and the connection cables at the same time.

As current meter (Messen)

to measure and indicate the current in a current loop.

As transmitter tester (■)

to supply a current loop powered sensor with energy and measure its output current at the same time

electrical data	Current range:	continuously adjust. 0 - 20mA with 10 turn potentiometer, 0, 4, 12 and 20mA directly selectable fixed values
	Indicator:	3½ place 13mm LCD actual value display Range ±19,99mA.
	Tolerances:	± 0,05% of range. ± 1 Digit for the display ± 0,1% for the fixed current values
	Maximum load:	1500Ω with an external supply of 36V 700Ω at end of the battery life
	Load voltage	as current sink: $V_{min} = I_{out} \times 20\Omega$, $V_{max} = 60V$ as current source & transmitter tester: approx. 22V
	Internal impedance:	approx. 14Ω as transmitter tester or current meter
	Input protection:	The inputs are protected up to ± 60V
	Connections for measurements:	4mm plug, wire up to 2mm diameter can be clamped directly
	Temp.coefficient:	± 50ppm/K
	Operating temp.:	-20°C to + 60°C
	Housing:	Enamelled steel sheet housing, electromagnetically completely shielded
	Dimensions / Weight:	116 x 100 x 28 mm, about 500g
	Isolation:	The housing is isolated from the measurement circuit. $U_{max} = 60V$
	Rotary switch:	Shortcircuited switching technique, gold plated hard silver contacts
Power supply	Battery type:	3x9V units IEC 6LF22, eg. Duracell MN 1604
	Battery low:	Indicated by red LED (remaining life about 1 hour)
	Battery life:	Operating mode - current sink & meter ~ 100 hours - current source & transmitter tester according to output current 20-100 hours
	External source:	18-36V= via 4mm plug sockets. The external voltage must be isolated from the measurement circuit.
Delivry form	Ordering example:	1 unit typ STS 3000
Calibration laboratory	Option	Calibration certificate: The calibration is done with measurement equipment which is several times more accurate than the calibrated object. The measurement equipment is traceable to the national standards at the PTB (Physical Technical Federal Institute). With this calibration certificate you prove the required ISO 9000 traceability to national standards.
Delivery program	HYBRIDS	Thick-film, Thin-film and SMD technology
	DECADES SIMULATORS	Resistors, capacitors, voltages, currents, current drains, attenuation Pt-100, Pt-500, Pt-1000, Ni 100 thermoelements, pH-values, conductivity, measurement transducers, strain gauges
	CALIBRATORS SWITCHES	for current loops and multimeters rotary switch/resistance combinations, attenuation components and resistance indicators, also with binary control.

We reserve the right to carry out modifications, especially those which improve the product. All correspondence occurs without reference to the Patent position.