

Accessories for the KLIPPEL QC Framework

A6

Specification for the KLIPPEL ANALYZER SYSTEM (Document Revision 2.0)

FEATURES

- Temperature / humidity sensor
- Bar / QR code scanner
- Manual sweep controller
- GPIB-USB controller

Further available accessories are listed in separate specifications

BENEFITS

- Monitor environmental conditions
- Read serial numbers from DUT labels
- Automatically select correct test sequence based on bar code
- Control manual sweep parameters (frequency, voltage) in an intuitive, fast and accurate way



DESCRIPTION

The KLIPPEL QC framework supports a selection of accessories, dedicated for use in both lab and manufacturing environment.

All components are tested and selected according to robustness and endurance under daily production conditions.


Article number

2800-xxx


CONTENT

1	Temperature and Humidity Sensor	2
2	Bar Code Scanner	3
3	Manual Sweep Controller.....	3
4	GPIB-USB Controller	4
5	Further Accessories	4
6	Deprecated Accessories	5


1 Temperature and Humidity Sensor

1.1 Features		Art. Nr. 2800-011
	<ul style="list-style-type: none"> • Robust for use at assembly line • USB interface (USB powered) • No separate driver installation (included in QC installation) • Temperature and humidity data recorded automatically with each measurement • Logged data can be analyzed regarding impact on driver behavior • Requires QC6.1 • Compatible to any hardware platform 	
1.2 General Data		
	<ul style="list-style-type: none"> • Calibrated sensor, traceable to national standards • Optional available: Certificate of calibration (DAkKS, additional cost) • Weight: 100g • Cable length: 2m 	
1.3 Data Sheet		
	<p>Temperature</p> <ul style="list-style-type: none"> • Measurement range: -40°C ... 120°C • Accuracy typ.: ±0.3 °C at 25°C • Resolution: < 0.01 °C • Repeatability: ±0.1 °C 	<p>Humidity</p> <ul style="list-style-type: none"> • Measurement range: 0% ... 100% • Accuracy: ±3%RH (25% < %RH < 90%) • Resolution: <0.03% %RH • Nonlinearity: < 1% RH • Hysteresis: ±1% full scale • Repeatability: ±0.1% RH • Long term stability: <1% RH/year


2 Bar Code Scanner

2.1 Features		Art. Nr. 2800-004
	<ul style="list-style-type: none"> • Sturdy housing for use in assembly line • Ergonomic handling • Requires no driver installation • Serial number is recorded automatically with each measurement • Logged data can be easily analyzed • Comfortable test selection via QC Start (test name mask) 	
2.2 Data Sheet		
	<ul style="list-style-type: none"> • Decodes all common barcodes and QR codes (“quick response” - 2D barcodes) • visible LED • Interfaces USB, keyboard, RS-232(C) • Dimensions:180 x 66 x 43 mm • Weight: 180g (without cable) • Operation temperature range: 0°C ... 40°C (32°F ... 104°F) • Operation humidity range: 0% ... 95% <p>Please note that the exact specifications may vary. Please contact Klippel to get a manufacturer data sheet of a particular bar code scanner.</p>	




3 Manual Sweep Controller

3.1 Features		Art. Nr. 2800-005
	<ul style="list-style-type: none"> • Intuitive control of the manual sweep frequency and voltage • Ergonomic handling • Toggling between frequency and level control mode • Change speed between very detailed and fast • Driver available with QC installation 	
3.2 Data Sheet		
	<ul style="list-style-type: none"> • USB connector • Weight: 479 g • Height: 55 mm 	

4 GPIB-USB Controller

4.1 Features		Art. Nr. 2800-400
	<ul style="list-style-type: none"> Control and measure with 3rd party test instruments with the QC software via GPIB bus Extend testing capabilities of the QC system Remote control secondary test equipment like power supplies Supports multiple devices Easy integration of external test results in QC test Requires <i>EXD – External Devices</i> module for the QC framework 	
4.2 Data Sheet		
	<ul style="list-style-type: none"> Drivers for Windows Vista/7/8/8.1/10 Supported standards: IEEE 488.1 & 488.2 USB 1.1 and USB 2.0 compatible Standard USB (B) and IEEE 488 (Male) connectors USB virtual serial port USB powered (max. 100 mA) Indicators: TALK, LISTEN Dimensions: 2.5 in. (L) x 2.5 in. (W) x 1.0 in. (H) Weight: 3 oz. 	

5 Further Accessories

5.1 Microphones	
See specification <i>A4 - Microphones</i>	
5.2 Cables	
See specification <i>A3 – Amplifier and Speaker Cables</i>	
5.3 Multiplexers	
See specification <i>A8 - Multiplexer</i>	

5.4 Artificial Ears/Mouths and Headphone Test Stands

See specification A14 - *Artificial Ears and Mouths*



5.5 Laser Displacement Sensors

See specification A2 – *Laser Displacement Sensor*



5.6 Amplifiers

See document *KLIPPEL Amplifier Selection Guide*



6 Deprecated Accessories

6.1 Temperature and Humidity Sensor (for PA only)

Art. Nr. 2800-001

FEATURES

- Robust for testing at assembly line
- Requires no calibration
- Is connected directly to the Production Analyzer I/O port
- Requires no driver installation
- Temperature and Humidity data will be recorded automatically with each measurement
- Logged data can be analyzed regarding impact on driver behavior



DATA

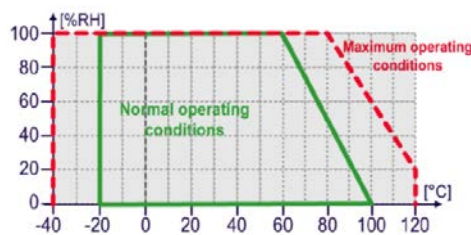
Temperature


- Measurement range -40°C ... 123.8°C
- Accuracy $\pm 1\text{ }^\circ\text{C}$ ($0\text{ }^\circ\text{C} < T < 40\text{ }^\circ\text{C}</math>)$
- Resolution <math>< 0.01\text{ }^\circ\text{C}</math>

Relative Humidity

- Measurement range 0% ... 100%
- Accuracy $\pm 3\%RH$ ($20\% < \%RH < 80\%$)
- Resolution <math>< 0.5\% RH</math>
- Long term stability <math>< 0.5\% RH/y</math>

Normal and max. operating conditions



6.2 Foot Switch		Art. Nr. 2800-003
FEATURES	<ul style="list-style-type: none"> • Starts test operation • Robust for testing at assembly line • Secure stand • Is connected directly to the Production Analyzer I/O port • Requires no driver installation • Approvals by BG, CSA, UL <p>The foot switch can be simply assembled using recommended parts. A list of required components from global distributors is available on request.</p>	
DATA	<ul style="list-style-type: none"> • Voltage 500 VAC • Current max. 10 A • Mechanical life time 107 switching actions • Protection class IP 65 • Cable entry 1 x M20 • Weight 0.6 kg • Size 220 x 70 x 60 mm 	

Find explanations for symbols at:

<http://www.klippel.de/know-how/literature.html>

Last updated: September 04, 2018

