

QC version 5

FEATURES

- Temperature / humidity sensor
- Bar / QR code scanner
- IO-Tester
- Foot Switch

(For microphones see Spec A4)



The KLIPPEL QC SYSTEM provides a growing spectrum of accessories, which are optimal for use in manufacturing environments. This includes different microphone sets, I/O devices like a foot switch or a barcode reader, cables and temperature/humidity sensors.

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

Article Number: 2800-001, 2800-003, 2800-004, 2800-300

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Temperature and Humidity Sensor

Article Number:
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

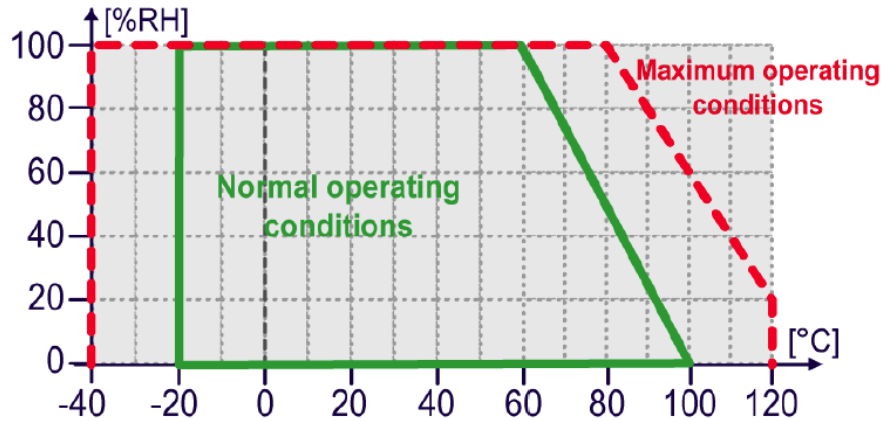
Temperature




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






Bar Code Scanner		Article Number: 2800-004
Features	Robust for testing at assembly line Ergonomic handling Requires no driver installation Data will be automatically recorded with each measurement Logged data can be easily analyzed Comfortable test selection via QC Start	
Data	Decodes all common barcodes and QR codes (<i>"quick response"</i> - 2D barcodes) visible LED Interfaces USB, keyboard, RS-232(C) Dimensions 180 x 66 x 43 mm Weight 180g (without cable) Operation temperature 0°C ... 40°C (32°F ... 104°F) Allowed Humidity 0% ... 95% Please note that the exact specifications may vary. Please contact Klippel to get a manufacturer data sheet of a particular bar code scanner.	
		
Foot Switch		Article Number: 2800-003
Features	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	
Data	Voltage 500 VAC Current max. 10 A Mechanical life time 10 ⁷ switching actions Protection class IP 65 Cable entry 1 x M20 Weight 0.6 kg Size 220 x 70 x 60 mm	
		
IO-Tester / Decoupler (for PA only)		Article Number: 2800-300
Features	Complete galvanic Decoupling of <u>all</u> GPIO in- and outputs. Starts test operation Ergonomically handling Checking of GPIO port operation Provides manual setting of all inputs Does not require driver installation	
Data	Size 120 x 85 x 35 mm Weight 0.25 kg	
Restrictions	Max. switching frequency of digital signals: 200Hz (TTL-Level) Voltage max 24 VDC Inputs for Pin 7 (Start) and Pin 19 (Sensor In) are logically inverted due to galvanically decoupling at the peripheral port	
		

<h2>Manual Sweep Controller</h2>		Article Number: 2800-005
Features	<p>Intuitive control of the manual sweep Ergonomic handling Toggling between frequency and level control Change speed between very detailed and fast</p> <p>Driver available with QC installation.</p>	
Data	<p>Weight 479 g Height 55 mm</p>	

3rd party Accessories

Please contact Klippel for details. Klippel sells all GRAS products in combination with Klippel products.

Mouth Simulators	<ul style="list-style-type: none"> • ITU-T recommendation P51 • Jigs available CCIT P51 and IEEE269 • Internal amplifier • 100 dB at mouth reference point • Frequency range 100 Hz ... 16 kHz 	
Artificial Ears	<ul style="list-style-type: none"> • Headsets and earphone testing • IEC 60318-1,2 & 4 • ITU-T Rec. P57 (08/96) • ISO Standards 4869-4 (60711) • And other standards 	
Head & Torso Simulators	<ul style="list-style-type: none"> • KEMAR representing average human • Meeting standards by ISO, IEC and ANSI • Testing ear- & headphones • Headset & Handset • 100 % backwards compatibility 	

**Headphone Test
Fixture**

- Applicable also to earphones, hearing aids
- Hearing-protection, ear plugs, ear muffs
- Optimizing acoustic isolation
- Minimum noise floor
- Fitted with microphones or ear simulator



Find explanations for symbols at <http://www.klippel.de/know-how/literature.html>