

SCI

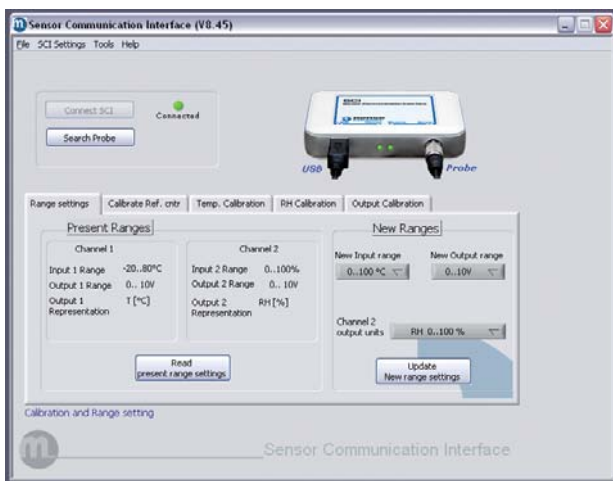
Sensor Communication Interface



The Sensor Communication Interface is designed to easily access the settings of Michell Relative Humidity transmitters. Using a USB connection means that there is no need for an external power supply. The SCI features an on-board AD-converter which enables checking the analog output of almost any RH-transmitter. When connecting a Humidity probe with a μ -Processor, the changing of many settings, as well as the re-calibration of a relative humidity device, will become an easy job. Together with the interface software the SCI is a very powerful tool.

Highlights

- USB digital interface, no additional power is required
- Offers easy re-calibration
- Diagnostics and logging
- Read-out of digital and analog signals
- User selectable input/output ranges
- 4- and 5-wire probe compatible



Technical Specifications

Hardware	
Interface port	USB
Power supply	USB powered
Compatibility	4 and 5 wire probes
Input ranges	Analog and digital probes Volt outputs: 0 to 10 V (3-wire) mA outputs: 0 to 20 mA and 4 to 20 mA
Converter	24 bits ADC for monitoring transmitter output signals
Software	
Type	Labview® based software
Functions	<ul style="list-style-type: none"> • Diagnosis & troubleshooting • Calibration parameters analysis • User selectable input and output ranges • Read-out of internal measured values • Read-out of analog output signals probe • Selecting different output dimensions • Re-calibrating RH and temperature inputs • Logging of measured values to disk

Order Codes

Description	Code
SCI, sensor communication interface kit. Includes: Carrying Case SCI Unit plus software on CD-ROM USB and Instrument Cable (see options below)	SCI-DIG-SET

Accessories and spare parts

Cable SCI - M-12	A000310
Cable SCI - M-8	A000311
Cable SCI USB	A000312
Cable SCI - Header 4P	A000313
Cable SCI - 4 wire Cable	A000314

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: SCI-Control_1001US_P

Control Kit

For the Calibration of Relative Humidity Sensors



Technical Specifications

The control kit consists of:

- 5 vials of the same humidity value
- 7 paper test strips
- 1 control chamber with version HKCxxCxx, without control chamber with version HKCxxS00
- Box dimensions: 100 x 140 x 40mm / 3.93 x 5.51 x 1.57"
- Weight: 1.0kg / 2.2lb

Accuracy

An accuracy of $\pm 3\%$ RH can be achieved with strict adherence to test procedure.

Operating Conditions

- Reference temperature: $23^{\circ}\text{C} \pm 1^{\circ}\text{C} / 73^{\circ}\text{F} \pm 2^{\circ}\text{F}$
- Environmental humidity stabilized $\pm 10\%$
- Set up conditions:
 Temperature between 0 and $50^{\circ}\text{C} / 32$ and 122°F with correction to be applied according to the instruction manual.
 Ambient RH between 40 and 60% RH
- The instrumentation should be set up and the control kit must be kept in the same environment at least 10 hours before the procedure is started
- Shelf life of the solutions:
 In vial: unlimited
 In the control chamber: 2 hours

Order Codes

Control Kit for relative humidity HKC 2 5 C12

Test Value	
25% RH	2 5
35% RH	3 5
50% RH	5 0
80% RH	8 0

Test Chamber	
Without chamber	S00
With chamber $\varnothing 12\text{mm}$	C12
With chamber $\varnothing 19\text{mm}$	C19
With chamber $\varnothing 22\text{mm}$	C22

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