

TECHNICAL OFFER N° 210511-2041		DATE	
11/03/2025			
DESIGNATION		RESISTIVITY MEASURING TEST CELL	
<p><u>Vettiner Reference</u></p>  <p><u>Dimensions & Weight</u></p> <ul style="list-style-type: none"> • Height (mm) • Base Ø (mm) • Head Ø (mm) • Side □ (mm) • Weight (Kg) 	<p><u>SCS R1</u> Product</p>  <p>152 mm (With cover) N.A. N.A. 232 mm x 212 mm 6.25 kg</p>	<p><u>SCS R1 PACK</u> Container</p>  <p>400 mm N.A. N.A. 300 x 300 mm 3 kg</p>	<p><u>SCS R1 WOI</u> Wooden packing</p>  <p>400 mm N.A. N.A. 300 x 300 mm # 4.0 kg ± 20 %</p>
<p><u>Main Application</u></p> <ul style="list-style-type: none"> • Solid insulating materials (non exhaustive list) • High Insulation Resistance Measurement • Volume Resistivity Measurement • Surface Resistivity Measurement • HV DC Resistivity test 	<p>Paper, plastic foils, elastomer, XLPE, etc...</p> <p style="text-align: center;">✓ ✓ ✓ ✓</p>		
<p><u>Main Characteristics</u></p> <ul style="list-style-type: none"> • Volume resistivity range • Technology • Measuring Electrode : Operating surface • Measuring Electrode : Diameter • Measuring Electrode : Operating surface covering sample • Measuring Electrode : Electrode concentricity • Ring Electrode : Diameter • Top "HV" Electrode : Diameter • Sample : Minimum size of sample (To keep guard electrode benefit) • Sample : Maximum size of sample • Sample : Maximum thickness of sample • Insulating material • Inter Electrode Distance (Between Rx & Guard electrode) • Operating Voltage • Peak Measure Voltage • Peak Common Voltage • Peak Test Current • Operating Frequency 	<p style="text-align: center;">10^3 to 10^{18} Ohm.cm</p> <p style="text-align: center;">Three Terminals Special Stainsteel Test Cell</p> <p style="text-align: center;"># 100 cm² 112.8 mm O.D. ± 0,05 mm # 177 cm² ≤ 0,2 mm from ring electrode' center 118 mm I.D. + 0,05 mm - 0 mm 128 mm O.D. ± 0,05 mm Ø 140 mm or □ side 140 mm x 140 mm Ø 170 mm or □ side 170 mm x 180 mm 3 mm thick Polyoxymethylene 2.6 mm 1 kV (DC) 200 V 200 V 0,1 A Direct current</p>		
<p><u>Vettiner Benefit</u></p> <ul style="list-style-type: none"> • Compliance to International Standards & recommendations • Safety : Interlock • Structure stability / year • No or reduced Maintenance • Sturdiness & reliability over time • Total operator safety & easy use • 2 years warranty • After sales service 	<p style="text-align: center;">IEC 62631-3-1, ASTM D257, ... IS...</p> <p style="text-align: center;">4 pin for use with Tera-Ohmmeter (Depend of selected model)</p> <p style="text-align: center;">< ± 0.5 %</p> <p style="text-align: center;">✓ ✓ ✓</p> <p style="text-align: center;">2 years included, 3 or 5 or 10 years in option 10 years guaranteed, over 50 years recorded</p>		
<p><u>Temperature coeff.</u></p> <ul style="list-style-type: none"> • Linearity (Temperature coeff.) % / °C 	<p style="text-align: center;">3% RH deviation per degree above 35°C</p>		
<p><u>Environment</u></p> <ul style="list-style-type: none"> • Operating temperature • Storage temperature • Operating Hydrometry • Altitude 	<p style="text-align: center;">- 20 °C up to + 50 °C - 55 °C up to + 70 °C 0% up to 70% up to 1000 m, consult us for eventual application at higher elevation</p>		
<p><u>Accessories & Options</u></p> <ul style="list-style-type: none"> • Set of measuring cables & instruments (XX meters long) • Special PT 100 sensor socket for Temperature Test cell • HV AC Tan δ & Capacitance & Er Tests • Other requirements 	<p><u>Reference</u></p> <p>TCA-TERA XX SCS R1 / PT 100 SCS R1 / HV AC SCS R1 / OR</p>	<p style="text-align: center;">Under Request Under Request Under Request Under Request</p>	
<p><u>Freight & Packaging</u></p> <ul style="list-style-type: none"> • Important Note 	<p style="text-align: center;">No specific requirement, except shock protection for freight</p>		
<p><u>Calibration</u></p> <ul style="list-style-type: none"> • Vettiner calibration certificate • External laboratory calibration certificate 	<p style="text-align: center;">Detailed expected calibration to be defined according to application, under request ISO 17 025 under Request</p>		

Some of the above technical data are valid at the above mentioned date but could change without any notice at any time (Ex. dimensions or weight or else...)

(*) Better on demand

