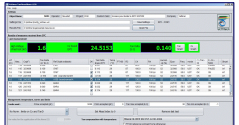
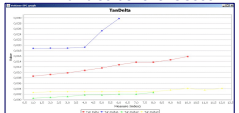












TECHNICAL OFFER N° XXXXXX-XXXXX		DATE 17/02/2023			
DESIGNATION		EXTREME ACCURATE AUTOMATIC SCHERING BRIDGES (Same measuring Performances)			
Vettiner References Illustration Software Under Windows Ref. Tan δ Soft 5 for SPC 5000  Tan d Soft 3 for SPC 3000  Dimensions & Weight <ul style="list-style-type: none"> Width (mm) Depth (mm) Height (mm) Weight (Kg) 		SPC 5000 <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Portable case  Portable case unit 590 mm 480 mm 210 mm 25 kg </div> <div style="text-align: center;"> Rack case  Rack case Unit 520 mm (Rack case 19 ") 400 mm (Rack case 460 mm) 290 mm (Rack case 6 U) # 29 kg </div> </div> 			
General Application <ul style="list-style-type: none"> Dielectric insulation qualification / status Power / Instrument Transformers insulation Generators insulation Bars / Coils insulation Cables insulation Power Capacitors insulation Liquid / solid dielectric samples All HV equipments insulation Laboratories, Production & Maintenance 		<div style="text-align: center;">  </div>			
Main Characteristics <ul style="list-style-type: none"> Technology Measuring Modes Balancing Modes (Manual or/& Automatic, Both built-in) 		<div style="text-align: center;"> Schering Bridge Structure UST, GST & GSTg Automatic / Manual (selection inside menu) </div>			
Main Measured Values (All displayed) <ul style="list-style-type: none"> Voltage Current Frequency Capacitance Tan Delta - Tan δ P. factor - cos φ Watt Loss Permittivity - εr 		Test ranges 0-...999kV 0 - 6 A (& +) 45 - 65 Hz & + 0- 80000 μF & + 0 - 100 % & + 0 - 1 0 - 100 kW 0 - 30	LCD Display 5 dgts. 4 dgts. 4 dgts. 7 dgts. 9 dgts. 4 dgts. 5 dgts. 5 dgts.	Resolution 0,1 V 0,1 μA 0,01 Hz 0,01 pF 1.10 ⁻⁶ (1ppm) 0.001 1 μW 0.001	Accuracy 0,5 % ± 5 dgts 0,5 % ± 5 dgts 0,01 % ± 1 dgts 0,025 % ± 5 dgts 0,5 % ± 1.10 ⁻⁵ 1,0 % ± 1 dgt 1,0 % ± 1 dgt 1,0 % ± 1 dgt
Other Tests or interfaces <ul style="list-style-type: none"> Ambient Temperature T °C & Hydro % Option : Local Temp T °C/ PT100, Resistivity ρ Software to drive tests & manage test results... Interface : RS 232, USB for Tests storage, ... 		<div style="text-align: center;">  </div>			
Vettiner - Benefits <ul style="list-style-type: none"> Vettiner : Schering Bridge manufacturer since over 88 years (1933) Vettiner - Inventor of Null Oscilloscopic indicator Vettiner - Inventor of Automatic Schering Bridge HMI 10" Touch screen PC Control & sturdy μcontroller base PC Benefits & Built-in Excel & PDF conversion Built-in interactive manual Easy use, very intuitive Calibration : Easy check & easy calibration No or reduced maintenance over time Sturdiness & reliability over time Total operator safety & ease of use Warranty After Sales Service 		<div style="text-align: center;"> World most accurate technology for Tan delta HV Tests  Vettiner patent Calibration of only resistances & capacitances  1 year included, 2 or 3 or 5 years in option 10 years service guaranteed, over 50 years recorded </div>			
Eventual Options or Accessories <ul style="list-style-type: none"> Connection Terminals SCT Measuring cables - XX m under request TCA SPC XX Automatic Guard Potential regulator SRA 3 Measure & display of local Temp. PT/SPC Measure & display of permittivity εr εr/SPC Measure & display of resistivity ρ in DC ρ/SPC Additional shunt or CT / high current tests SS XX Special protection / proof container SPCPPACK Null Oscilloscopic indicator 3 Fixed frequencies GOSCB Null Oscilloscopic indicator variable frequency GOSCFV Std Capacitor, Cn included or separated CA/CS/CG HV Generator, included or separated AL XX-YY Variable resonating inductance ALRI XX-YY Sample test cell, liquids or solids SCL/SCS Heating Control for self heating test cells SC/SH Eventual training TRAIN Eventual on site setting up INSTAL. Eventual other requests EOR 		<div style="text-align: center;"> UHF without any request, Lemo under simple request Length (XX m) can be adapted to your application, under simple request Already built-in parametric compensation for parasite capacitances & resistances of cables but SRA 3 option compulsory for test cells Usually not necessary for most production routine tests - Nevertheless, necessary for tests with test cells & some specific application Usually not necessary for most production routine tests - Can be required for tests with test cells & some specific application Can be required with few application. In main cases, a separate special test cell with a specific Mega/Tera-Ohmmeter i required Usually not necessary for tests in power plants - Nevertheless, available on request Supplied container are already proof when closed - Under request Usually not required for routine tests and required only for very specific application, under request only Usually not required for routine tests and required only for very specific application, under request only Std Capacitor XXXX kV - YYYY pF under request Typically, it can be built in for application on Test cells, 2 kV up to 5 kV when in rack case. For higher voltage, it is necessary separated Usually required for tests in power plants (MV/HV Generators, Motors...) - Available on request Most test cells available inside Vettiner ranges, for liquid or solid dielectric samples - Under request A common heating system has been developed by Vettiner to be used with most Vettiner - Under request Depends on need & application, under request Depends on need, under request Depends on need, under request </div>			
Environment <ul style="list-style-type: none"> Operating Temperature Storage Temperature 		<div style="text-align: center;"> - 10 °C up to + 50 °C - 20 °C up to + 60 °C </div>			
Calibration <ul style="list-style-type: none"> Vettiner calibration certificate included (BNM Traceable) External laboratory calibration (ISO 17025, ...) 		<div style="text-align: center;">  Under request </div>			

Note : 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...)