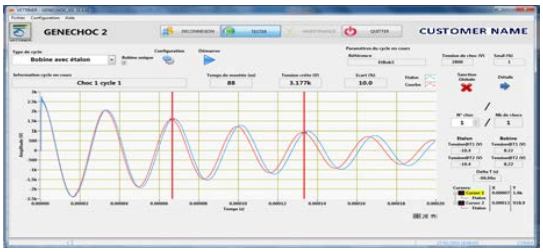
VETTINER OFFRE TECHNIQUE

TESTS D'ISOLEMENT ENTRE SPIRES - MACHINES DE PUISSANCE

ODC HT A FORT COURANT & FORTE ENERGIE - 2 à 6 kV

DESIGNATION	ODC 2 à 6 kV - Courant Fort
Référence Vettiner	**GC HI 2 à 6 i S**
	
Dimensions & Poids · Hauteur (mm) · Largeur (mm) · Profondeur (mm) · Poids (Kg) **Disponible également en valise ou rack avec PC à écran tactile intégré (options)**	300 mm 540 mm 600 mm (700 mm avec couvercle de transport) # 25 kg + poids PC portable  Valise Rack avec PC à écran tactile 
Principales Applications · Tests des enroulements de stators (Machines AC mono et triphasées) · Machines DC & moteurs de Traction · Armatures, test barre à barre... · Moteurs de puissance pour industries lourdes HT-MT-BT · Alternateurs & Génératrices HT-MT · Bobines Haute Tension, bobine pour four à induction, transformateurs...	 ü ü ü ü ü ü
Principales Fonctions · Contrôle inter-spires des isolations de bobinage · Court-Circuit entre 2 spires de la même bobine · Court-Circuit entre 2 enroulements successifs (rotors)(test barre à barre) · Déficience du nombre de tours bobinés, choix du fil ou étirage du fil · Déficience ou seulement faiblesse de l'isolation des enroulements · Déficience dans le circuit magnétique (stators) · Déficience dans la géométrie des bobines	 ü ü ü ü ü ü ü
Principales Caractéristiques · Nombre de chocs · Tension de test · Tension de test crête appliquée · Rampe de montée de tension (dV/dt) · Montée de tension appliquée · Energie maximale (en fonction de la tension max et condensateur utilisés) · Capacité(s) de charge (de 2 à 3 max en option) · Temps de montée en courant · Temps de régénération entre les essais · Incertitude de répétabilité (= Précision) · Temps d'enregistrement · Gammes de tension · Seuils de comparaison · Alimentation générale équipement · Informatisation des essais · Logiciel	**Choc unique, répétable et programmable selon normes applicables** **0 - 2 à 6 kV (ajustable par logiciel)** **Mesurée et affichée selon les normes applicables** **50 ns à 100 ns** **Mesurée et affichée selon les normes applicables (IEEE 522 & CEI 60034-15)** **1 à 18 Joules, ou sur demande (adapté aux profils des objets testés)** **Jusqu'à 3 condensateurs intégrés, 0.1 µF à 1.0 µF ou plus sur demande, sélection par logiciel** **2 000 A / µs** < 2.0 secondes **£ 0,3 %** 5 µs à 5 ms (peut être adapté sur demande) 1 kV, 2 kV, 3 kV & 6 kV 1% à 25 % 220 / 240 V - 50 / 60 Hz - 400 VA maxi (Autre sur demande) Ordinateur avec **interface USB** & logiciel sous windows Contrôle, Analyse, Rapport, Transfer possible sous Excel, impression...
Accessoires ou Options éventuels · Mesure différentielle tension appliquée aux bornes objet testé (/induit...) · Pince/Clamp spécial de test manuel d'armatures avec réglage d'ajustage · Pédale de contrôle de sécurité · Cage/hall de test protégé · Ensemble automatique de contrôle rotors incluant tests supplémentaires comme résistance d'isolement, d'enroulements, tests diélectriques AC...	 Sur demande Sur demande Sur demande Sur demande Sur demande Sur demande
Vettiner - Bénéfice client · Technologie de très haute performance et qualité · Haute répétabilité des tests · Amélioration des diagnostics · Mesures rapides (< # 1 seconde) · Sécurité totale de l'opérateur · Robustesse & fiabilité dans le temps · Contrôle d'étalonnage facile · Simplicité utilisation après formation (Assistance intégrée) · 1 année de garantie · Service après vente	 ü ü ü ü ü ü ü ü 1 année incluse, 2 ou 3 années en option **10 année de service garantie**, au-delà de 50 ans déjà enregistré c/o Vettiner
Environnement · Température de fonctionnement · Température de stockage	 - 10 °C à + 40 °C (+ 50 °C possible sur demande) - 20 °C à + 70 °C
Etalonnage · Certificat d'étalonnage Vettiner inclus · Certificat d'étalonnage réalisé par un laboratoir externe	 ü ISO 17 025 sur demande, en option

Note : Certaines caractéristique techniques ci-dessus sont valides lors de la date d'édition de cette fiche mais peuvent changer sans préavis (Ex. dimensions ou poids ou autres...)

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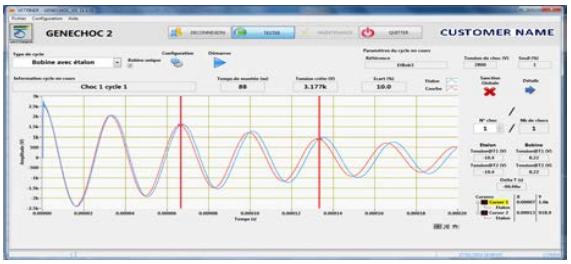
VETTINER TECHNICAL OFFER

HV & HIGH CURRENT SURGE TESTER

3 kV SURGE TESTER - HI TYPE

TECHNICAL OFFER N°	230718-1901	DATE	11/03/2025

DESIGNATION	GC HI 3 i Surge Tester
Vettiner Reference	**GC HI 3 i S**
	
Dimensions & Weight	
· Height (mm)	428 mm (Upper model)
· Width (mm)	206 mm (Upper model)
· Depth (mm)	600 mm (Upper model)
· Weight (Kg)	# 25 kg + Weight of Laptop PC
Main Application	
· Stators Windings tests (Mono and three phase AC machines)	ü
· DC machines & Traction motors	ü
· Armatures, bar to bar tests...	ü
· HV-MV-LV power motors for Heavy Industries	ü
· **HV-MV alternators & generators**	ü
· HV coils, coils for inductive oven	ü
· MV-LV coils, motors, generators and various equipments	ü
Main Function	
· HV inter-turns insulation tests	ü
· Short-circuit between 2 spirals of one same coil	ü
· Short-circuit between 2 successive windings (rotors)(bar to bar test)	ü
· Deficiency in turns number, wire type selection or wire'stretching	ü
· Deficiency or only weakness of winding insulation	ü
· Deficiency in magnetic circuits (stators)	ü
· Deficiency in coils geometry	ü
Main Characteristics	
· **Number of Surges**	**Sole surge, repeatable and programmable according to applicable standards**
· Test Voltage	0 - 3 kV (adjustable with software)
· **Applied Peak Test Voltage**	**Measured and displayed according to applicable standards**
· **Voltage rise time**	**50 ns to 100 ns**
· **Applied Voltage rise time**	**Measured and displayed according to applicable standards**
· **Maxi Energy**	**1 to 36 Joules, more or less on request, selectable by software (Depends on tested objects)**
· **Load Capacitance(s) : Possible up to 4 built-in capacitances**	**3 identified built-in capacitances according to your application, selection by software**
· **Current rise time**	**2 000 A / µs**
· Regenerating time between tests	< 2.0 seconds
· Uncertainty of repeatability (= Accuracy)	**£ 0,3 %**
· Recording time	5 µs to 5 ms (can be adapted under request)
· Voltage range	1 kV, 2 kV, 3 kV & 6 kV
· Comparison threshold	1% to 25 %
· Mains power supply	220 / 240 V - 50 / 60 Hz - 400 VA maxi (Other under request)
· Computerization of tests	Computer with **optical insulated USB interface to surge tester** & Software under Windows 10
· Software	Control, Analyse, Report, Possible Excel Transfer, Print out...
Eventual accessories or Options	
· Differential Voltage measurement at test object terminals (/Armature...)	Under Request
· Special manual armature tester with adjusting position	Under Request
· Foot safe control	Under Request
· Safe test hall	Under Request
· HV DC insulation resistance test	Under Request
· Complete automatic rotor test set including additional tests like winding resistance, AC dielectric tests, etc ...	Under Request
Vettiner - Customer benefit	
· Very high performance and quality technology	ü
· High repeatability of tests	ü
· Improvement of diagnosis	ü
· Fast test measurement (< # 1 seconde)	ü
· Total safety of operator	ü
· Sturdiness & reliability over time	ü
· Easy check of calibration	ü
· Easy use after training (Built-in soft assistance in addition)	ü
· 1 year warranty	1 year included, 2 or 3 years in option
· **After sales service**	**10 years service guaranteed**, over 50 years recorded c/o Vettiner
Environment	
· Operating temperature	- 10 °C up to + 40 °C (+ 50 °C possible under request)
· Storage temperature	- 20 °C à + 70 °C
Calibration	
· Vettiner certificate included	ü
· Eventual external Calibration (ISO 17 025 Calibration)	ISO 17 025 under request, in option

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...)

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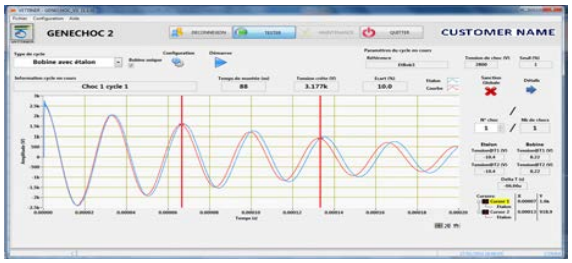
VETTINER TECHNICAL OFFER

HV & HIGH CURRENT SURGE TESTER

6 kV SURGE TESTER - HI TYPE

TECHNICAL OFFER N° 220616-1001			DATE 11/03/2025
	GC HI 6 i Surge Tester		
Vettiner Reference	**GC HI 6 i** "Production" Unit	**GC HI 6 i CR** "Transportable" unit Rack case	**GC HI 6 i P & S** Test on field - "Portable" Unit
			
Dimensions & Weight			
· Height (mm)	1 800 mm	600 mm	428 mm (Upper model)
· Width (mm)	600 mm	520 mm	206 mm (Upper model)
· Depth (mm)	800 mm	800 mm	600 mm (Upper model)
· Weight (Kg)	# 100 kg	# 50 kg	# 25 kg + Weight of Portable PC
Main Application			
· Stators Windings tests (Mono and three phase AC machines)		ü	
· DC machines & Traction motors		ü	
· Armatures, bar to bar tests...		ü	
· HV-MV-LV power motors for Heavy Industries		ü	
· **HV-MV alternators & generators**		ü	
· HV coils, coils for inductive oven		ü	
Main Function			
· HV inter-turns insulation tests		ü	
· Short-circuit between 2 spirals of one same coil		ü	
· Short-circuit between 2 successive windings (rotors)(bar to bar test)		ü	
· Deficiency in turns number, wire type selection or wire'stretching		ü	
· Deficiency or only weakness of winding insulation		ü	
· Deficiency in magnetic circuits (stators)		ü	
· Deficiency in coils geometry		ü	
Main Characteristics			
· **Number of Surges**		**Sole surge, repeatable and programmable according to applicable standards**	
· Test Voltage		0 - 6 kV (adjustable with software)	
· **Applied Peak Test Voltage**		**Measured and displayed according to applicable standards**	
· **Voltage rise time**		**50 ns to 100 ns**	
· **Applied Voltage rise time**		**Measured and displayed according to applicable standards**	
· **Maxi Energy**		**1 to 36 Joules, more or less on request, selectable by software (Depends on tested objects)**	
· **Load Capacitance(s) : Possible up to 4 built-in capacitances**		**3 identified built-in capacitances according to your application, selection by software**	
· **Current rise time**		**2 000 A / µs**	
· Regenerating time between tests		< 2.0 seconds	
· Uncertainty of repeatability (= Accuracy)		**£ 0,3 %**	
· Recording time		5 µs to 5 ms (can be adapted under request)	
· Voltage range		1 kV, 2 kV, 3 kV & 6 kV	
· Comparison threshold		1% to 25 %	
· Mains power supply		220 / 240 V - 50 / 60 Hz - 400 VA maxi (Other under request)	
· Computerization of tests		Computer with **optical insulated USB interface to surge tester** & Software under Windows 10	
· Software		Control, Analyse, Report, Possible Excel Transfer, Print out...	
Eventual accessories or Options			
· Differential Voltage measurement at test object terminals (/Armature...)		Under Request	
· Special manual armature tester with adjusting position		Under Request	
· Foot safe control		Under Request	
· Safe test hall		Under Request	
· HV DC insulation resistance test		Under Request	
· Complete automatic rotor test set including additional tests like winding resistance, AC dielectric tests, etc ...		Under Request	
Vettiner - Customer benefit			
· Very high performance and quality technology		ü	
· High repeatability of tests		ü	
· Improvement of diagnosis		ü	
· Fast test measurement (< # 1 seconde)		ü	
· Total safety of operator		ü	
· Sturdiness & reliability over time		ü	
· Easy check of calibration		ü	
· Easy use after training (Built-in soft assistance in addition)		ü	
· 1 year warranty		1 year included, 2 or 3 years in option	
· **After sales service**		**10 years service guaranteed**, over 50 years recorded c/o Vettiner	
Environment			
· Operating temperature		- 10 °C up to + 40 °C (+ 50 °C possible under request)	
· Storage temperature		- 20 °C à + 70 °C	
Calibration			
· Vettiner certificate included		ü	
· Eventual external Calibration (ISO 17 025 Calibration)		ISO 17 025 under request, in option	

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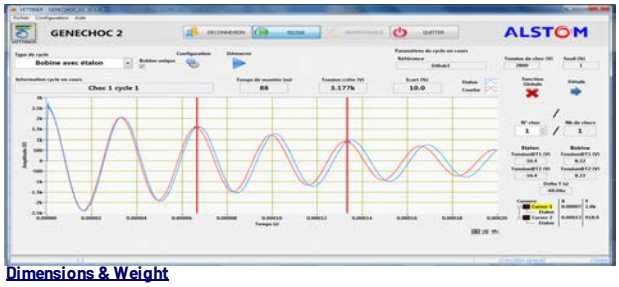
VETTINER - SPECIFICATIONS

SURGE TESTS ON HV / MV / LV COILS / MOTORS

GC RANGE - GC HI 15i type

DESIGNATION	SURGE TESTER GC HI 15 is
Vettiner Reference	**GC HI 15 is**
	 
Dimensions & Weight	
· Height :	2 000 mm
· Width :	600 mm
· Depth :	800 mm
· Weight :	# 120 kg
Main Application	
· Stators Windings tests (Mono and three phase AC machines)	ü
· DC machines & Traction motors	ü
· Armatures, bar to bar tests...	ü
· HV-MV-LV power motors for Heavy Industries	ü
· HV-MV alternators & generators	ü
· HV coils, coils for inductive oven	ü
· Adaptable for lightning tests / 1.2-50	ü
Main Function	
· HV inter-turns insulation tests	ü
· Short-circuit between 2 spirals of one same coil	ü
· Short-circuit between 2 successive windings (rotors)(bar to bar test)	ü
· Deficiency in turns number, wire type selection or wire'stretching	ü
· Deficiency or only weakness of winding insulation	ü
· Deficiency in magnetic circuits (stators)	ü
· Deficiency in coils geometry	ü
Main Characteristics	
· Number of Surges	Sole surge, repeatable and programmable according to applicable standards
· Test Voltage	2 working ranges : **0 - 6 kV** & **# 3 - 15 kV** (adjustable by software)
· Applied Test Voltage	Measured and displayed according to applicable standards (Cf. CEI 34 15 & IEEE 522)
· Voltage rise time (dV/dt)	**50 ns to 100 ns**
· Applied Voltage rise time	Measured and displayed according to applicable standards (Cf. CEI 34 15 & IEEE 522)
· Maxi Energy (Values to agree together)	**from # 5 to 110 Joules maxi at least according to loading selected capacitor**
· Load Capacitance(s)	Recommandation : **1 µF on range 0-6 kV** & **470 nF on range 3-15 kV**
· Current rise time	**2 000 A / µs**
· Regenerating time between tests	≤ 1.0 second
· Uncertainty of repeatability (= Accuracy)	**£ 0,3 %**
· Recording time	5 µs à 5 ms (can be adapted on request)
· Voltage range (To keep in mind, possible overshoots ≥ 15 kV)	5 kV, 10 kV, 15 kV & 20 kV
· Comparison threshold	1% to 25 %
· Mains power supply	220 / 240 V - 50 / 60 Hz - 400 VA maxi (Other under request)
· Computerization of tests	Professional computer & Software under Windows 7 or X
· Software under Windows (Last version)	Control, Analyse, Report, Possible Excel Transfer, Print out...
Eventual accessories or Options	
· Connecting cable for impulse HV injection with special clamps to tested "object"	5 m (Other eventual length under request, to be agreed)
· Compliance with usual safety requirements (Cf. NF C18-510)	Safety loop socket (+ eventual lighting signal under request)
· Differential measurement of applied voltage to test ojects terminals (/Induce...)	Under request
· Special manual armature tester with adjusting position	Under request
· Foot safe control	Included
· Safe test protected hall	Under request
· Complete automatic rotor test set including additional tests like Insulation resistance, winding resistance, AC dielectric tests	Under request Under request
Vettiner Benefit	
· Very high performance and quality technology	ü
· High repeatability of tests	ü
· Improvement of diagnosis	ü
· Fast test measurement (< # 1 second)	ü
· Total safety of operator	ü
· Sturdiness & reliability over time	ü
· Easy check of calibration	ü
· Easy use after training (Built-in soft assistance in addition)	ü
· **1 year warranty**	**1 year included, 2 or 3 years in option**
· **After sales service**	**10 years service guaranteed, over 50 years recorded**
Environment	
· Humidity rate operating	Operating in tropical area / Humidity rate relatively high (> 80 %)
· Operating temperature	- 10 °C up to + 40 °C (+ 50 °C possible under request)
· Storage temperature	- 20 °C up to + 70 °C
Calibration	
· Vettiner certificate included	ü
· Eventual external Calibration (ISO 17 025 Calibration)	ISO 17 025 on request, in option
· MCO Recommandation	General test & calibration once a year regarding potential risks / Mobile equipment

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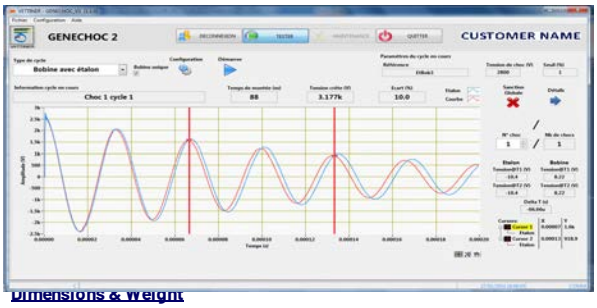
VETTINER - SPECIFICATIONS

INTERTURN TESTS ON HV GENERATORS & COILS 40 kV UP TO 60 kV

GC RANGE - GC HI 40i / GC HI 50i / GC HI 60i types

DESIGNATION	SURGE TESTERS - GC HI 40i / 50i / 60i
Vettiner Reference	**GC HI 40i / GC HI 50i / GC HI 60i** **Ex. Different possible presentation, to be agreed**
	 
Dimensions & Weight	
· Height :	2 000 mm
· Width :	600 mm
· Depth :	800 mm
· Weight :	# 120 kg
Main Application	
· Stators Windings tests (Mono and three phase AC machines)	ü
· DC machines & Traction motors	ü
· Armatures, bar to bar tests...	ü
· HV-MV-LV power motors for Heavy Industries	ü
· HV-MV alternators & generators	ü
· HV coils, coils for inductive oven	ü
· Adaptable for lightning tests / 1.2-50	ü
Main Function	
· HV inter-turns insulation tests	ü
· Short-circuit between 2 spirals of one same coil	ü
· Short-circuit between 2 successive windings (rotors)(bar to bar test)	ü
· Deficiency in turns number, wire type selection or wire'stretching	ü
· Deficiency or only weakness of winding insulation	ü
· Deficiency in magnetic circuits (stators)	ü
· Deficiency in coils geometry	ü
Main Characteristics	
· Number of Surges	Sole surge, repeatable and programmable according to applicable standards
· Test Voltage	Operating Voltage range : **# 5 - 42 kV / ... 62 kV** (ajustable with software)
· Applied Test Voltage	Measured & displayed according to applicable standards **(IEEE 522 & IEC 34-15)**
· Voltage rise time	**50 ns to 100 ns**
· Applied Voltage rise time	Measured & displayed according to applicable standards **(IEEE 522 & IEC 34-15)**
· Maxi Energy	**3,5 to > 50 Joules & +** / V test (To agree according to "profile" of test objects)
· Load Capacitance(s)	**50 à 470 nF on range 5-42 kV / ... / 62 kV**
· Current rise time	**2 000 A / µs**
· Regenerating time between tests	≤ 1.0 second
· Uncertainty of repeatability (= Accuracy)	**£ 0,3 %**
· Recording time	5 µs up to 5 ms (can be adapted under request)
· Voltage range	5 kV, 10 kV, 15 kV, 20 kV, 30, 40, 50 kV & 60 kV
· Comparison threshold	1% up to 25 %
· Mains power supply	220 / 240 V - 50 / 60 Hz - 400 VA maxi (Other under request)
· Computerization of tests	Professional computer & Software under Windows X
· Software under Windows	Control, Analyse, Report, Possible Excel Transfer, Print out...
Eventual accessories or Options	
· Extension : Operating Voltage range : 0 - 6 kV	Under request
· Foot safe control	included
· Safe test hall	Under request (Available connection to existing safety loop included)
· Special manual armature tester with adjusting position	Under request
· Complete automatic rotor test set including additional tests like Insulation resistance, winding resistance, AC dielectric tests	Under request Under request
Vettiner Benefit	
· Very high performance and quality technology	ü
· High repeatability of tests	ü
· Improvement of diagnosis	ü
· Fast test measurement	ü
· Total safety of operator	ü
· Sturdiness & reliability over time	ü
· Easy check of calibration	ü
· Easy use after training (Built-in soft assistance in addition)	ü
· 1 year warranty	**1 year included**, 2 or 3 years in option
· After sales service	**10 years service guaranteed**, over 50 years recorded
Environment	
· Operating temperature	- 10 °C up to + 40 °C (+ 50 °C possible under request)
· Storage temperature	- 20 °C up to + 70 °C
Calibration	
· Vettiner certificate included	ü
· Eventual external Calibration (ISO 17 025 Calibration)	ISO 17 025 under request, in option

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* Better on demand

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