INTERFACE TM 1800 OSDRM 20

TECHNICAL DATA

Overview	Specifications are subject to changes without any prior notification			
Environment	Application	For use in industrial environment and in High		
	Bay	Voltage sub-stations		
	Box	ABSTODUST		
	Working	+0°C to 50°C		
	Working	(32°E to 122°E)		
15	Stock & Transport	-55°C à +85°C		
The second second	Stock & Hunsport	$(-67^{\circ}\text{E to} + 185^{\circ}\text{E})$		
	Protection	IP41		
NEW COL	Humidity	5% - 95% BH non condensing		
	indimately	Working or pop working		
	Transport	ISTA 24 (Modules in a carrying case)		
	Compatibility	is in 2 in would is in a carrying case)		
	EMC	EN 61326-1007+ 41-1008 + 42-2001		
	Safaty	EN 61010 1-2001		
	Certifications			
	CB-Certificat	IEC 61010-1:2001 (incl. All national variants)		
	CB-Certificat	CE		
Master Controller	Mains supply	85V – 264V AC 50/60Hz		
		120V – 380V DC		
	Power	Max 600W		
	Output voltage	Adjustable: 3 – 18 DC/ Max. 40A		
	Weight	14.8 kg		
	Dimensions	53cm x 43cm x 22cm		
Deverete construction				
Remote controller	Weight	4,8 kg		
	Dimensions	35cm x 29,5cm x 15cm		
Connection asklas ast		2.4614-17-14-22		
Connection capies set	Current injection cables	2x16 black/red length 20m		
	Measurement cables	current/voltage 2xH0/KNF-2x1,5 length 15m		
	Master/Remote system	LI2YCY PIMF 8x2x0,5 length 15m		
	Control cable	5x1 length 2m		
	Cable for system Master/TM1800	Multi cable length 2m		
	Earth wiring cable	6m		

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OLTC – STATIC RESISTANCE MEASUREMENT OLTC – DYNAMIC RESISTANCE MEASUREMENT

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INTERFACE TM 1800 OSDRM 20



On load Static Dynamic Resistant M Measurement

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OLTC's

belong to the power transformers and are of major importance for operation, exploitation and management of a modern electrical network.

A OLTC is an active part of the power transformer and is operated several times per day. This equipment is responsible for 40% of the faults on power transformers. Since maintenance is an important strategy base as established by the managers of the electrical network, the need arises to have complete measurement equipment in order to have the possibility of getting relevant measurements on the equipment in question.

Overview.

The OSDRM 20 has been developed as interface for the use of the TM1800



For this application the TM1800 must be equipped with a sequencer program.

Application.

Measurements of OLTC on power transformers. Innovative approach: Fully automated measurements, static as well as dynamic, of all relevant resistances.

Building.

For the composition and the structure of the OSDRM 20 interface special attention was paid to a compact form and userfriendliness.

The interface OSDRM 20 comprises the following modules:

- Master Controller
- Remote Controller
- Sequencer Software TM1800
- Set of binding cables
- Accessories: Amperemetric grip and temperature sensor.

All the modules are portable. The connection of system OS-DRM 20 as well as the installation can be done guickly and is autodidactic. Non-cumbersome and easy transport.

Master Controller



- HMI Operator terminal
- Tactile colour screen
- Display of all measurements in progress
- Include all safety aspects

Remote Controller



- Orders and operations indicators • Acoustic warning of operations and
- in case of danger

Safety

During the development of the OSDRM 20 particular care was taken to the aspects concerning safety - automatic discharge and protection surge absorber, health and environment.

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M A N U	A U T O					88	3888
MEA	MEASUREMENTS						
	-88888		mV prim	-88888 mV set			mV sec
	-88888		mA prim	-88888888		888	uOhm
BAC	ĸ		500VA	-	10001/	M 3~) 🕀

Control dialog window:

 Injection current control • Display of primary voltage Display of secondary voltage Automatic resistance calculus • Display of the drive motor power • Control OLTC by stud

Analyses examples

Global print-out of an OTLC adjustment cycle.



Possibility of making a zoom on specific details, for example the course of a change of stud



INTERFACE TM 1800 OSDRM 20

Remark

Special versions are possible upon request, subject to the technical possibilities.

RECORD OF THE FOLLOWING DATA'S:

- PATH OF THE PRIMARY CURRENT •
- PRIMARY VOLTAGE DISTRIBUTION .
 - SECONDARY VOLTAGE DISTRIBUTION
 - MOTOR CURRENT PATH .
 - OPENING AND CLOSING OF . THE SELECTION CONTACTS
- OPENING AND CLOSING OF THE MAIN . CONTACT AND OF SWITCHING RESISTANCE CONTACTS
 - **MEASUREMENTS ON INTERRUPTS** •
 - **MEASUREMENT OF THE RESISTANCE** VALUE FOR EACH STUD
 - MEASUREMET OF MECHANICAL TROUBLES .

			_ 8 ×
Curs	sor1	Cursor2 4607.74	Difference
-	Cursor2	Difference	Unit
1	19.37	-0.34	V
	8.84	0.13	V
-	-0.24	-1.03	A
9	4.12	-0.07	