

NETWORK ANALYSIS . ENERGY MANAGEMENT

Single or 3-phase network, balanced / unbalanced
with or without neutral

STREC 20

Type

► Universal, the **STREC 20** is especially dedicated to the **management of energies**; it measures more than **28 parameters** : 3U, 3V, 3I, Cos, Cos/phase, F, P, Q, S, P/phase, Q/phase, leak current, Eactive, Ereactive, I_{max}, P(10min.) max. In / Out power measurement on 4 quadrants. It has an **RS422/485 output in standard** for the transfer of the measures and the energies.

Quick cycle time : 55 ms

Accuracy rating : Currents / voltages : 0.2
Powers 0.2 and active Energy : 0.5
Reactive energy : 1

2 programmable input calibers :

Current : 1A and 5A AC
Voltage : 150V and 500V AC

► Simple user friendly programming on a 4-key keyboard on front face or by PC, via the configuration software SuperVision, which allows **visualisation, saving and printing of the measures**.



Features

- Power supply high or low voltage (specify on order).
- The instrument can also be self-powered by the measure network (50 to 270 V AC) (on request)

Display

- **3 Indicators** among which one has **6 digits** for the reading of the Energies.
- Red high brightness display (digits : 14 mm).

Environment

- Operating T° : -10°C to +60°C.
- Storage T° : -20°C to +70°C.
- **CE marking** (89/336 rev.92/31).

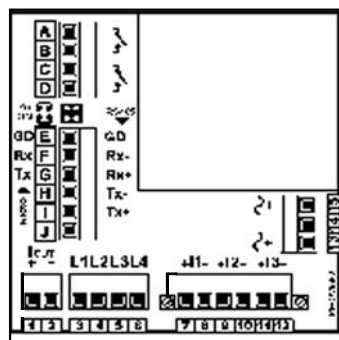
External features

Protection Case / terminals : IP 20
Front face IP 40 (IP 65 optional)

Case Self-extinguishing case of black UL 94 V1 polycarbonate.

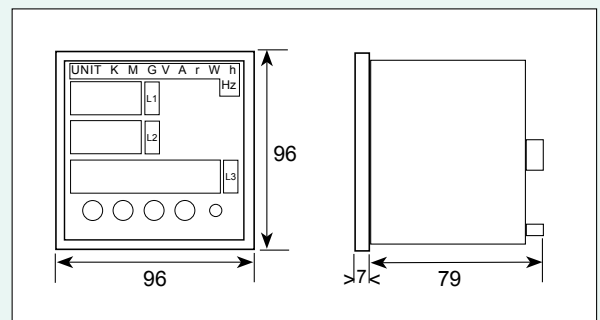
Connectors Plug-off connectors on rear face for screwed connections (2.5mm², flexible or rigid)

- A B C D**
relay outputs
- E F G H I J**
digital output RS422/485
- E F G**
digital output RS232
- 1 2**
analog output
- 3 4 5 6**
voltage measures
- 7 8 9 10 11 12**
current measures
- 13 14 15**
power supply



Dimensions

Case 96 x 96 x 86 mm (with terminals)
DIN 43700 standardized



Mounting On panel; cut out 92 x 92 mm

Tightening By 2 screwed brackets
(location on choice : on the sides or above / under)

Weight 470 g (with packaging)

Technical features

► Inputs • Voltage 2 programmable calibers Un=150 and 500Vac • Current 2 programmable calibers 1 and 5A (In=1.2A and 6A) <i>Measurable oversteppings</i> In and Un : 120% <i>Overloads</i> Permanent : 750 V, 10 A During 10 s : 1000 V, 50 A <i>Power draws</i> Voltage input : 1 MΩ resistor current input : < 0.2 VA <i>Test voltage</i> 2 kV / 50 Hz / 1 min. <i>Frequency</i> 45...50...65 Hz (Other frequencies : consult) <i>Type of network</i> Single or 3-phase balanced / unbalanced with or without neutral. <i>Thermic drifts</i> < 200 ppm		► Wiring Detailed manual delivered with the instrument.	
► Outputs • Output RS422-RS485 <i>Type</i> 2 or 4 wire (inputs galvanic partition 2 KV) <i>Polarisation / terminations</i> (switches on rear face) <i>Speed</i> 4800 / 9600 / 19200 bauds <i>Protocole</i> Modbus / Jbus RTU 8 bits without parity <i>Format of data</i> Integer 16 bits (table of units) • Bidirectionnal analog output (optional) <i>Galvanic partition</i> : 2KV Several combinations programmable (+/-20mA, +/-10mA...) <i>Scale setting</i> : 0 to 100% of the measure range by programming <i>Resolution</i> : 24000 points <i>Response time</i> : 50ms (<120ms input ==> output) • Relay output (optional) Output setpoints or energy pulse Type of contact : potential free, galvanic partition 2.5KV Rated load : 5A - 250 Vac		Coding ► Type • STREC 20 3U, 3V, 3I, Cos, Cos/phase, F, P, Q, S, P/phase, Q/phase, leak current, Eactive, Ereactive, Imax, P(10min.)max. • Power supply High Voltage : 2 Low Voltage : 3 • Order example : For a STREC 20 with a 230 Vac power supply request reference : STREC 20 - 2 <i>This instrument is dedicated to industrial applications. It has to be mounted in an electrical switchbox, or equivalent.</i>	
► Power supply • Version high voltage or low voltage (to be specified) <i>High voltage</i> : HV (2) : 90...270 VAc or 88...350 Vdc <i>Low Voltage</i> : LV (3) : 20...53 VAc or 20...75 Vdc <i>Power draw</i> : 6 VA max.			
► Measures • 28 displayed parameters (29 transmitted by the RS) <i>Accuracy rating</i> Voltages, currents : 0.2 (IEC60688) Power : 0.2 (IEC60688) Active energy : 0.5 (IEC60687) Reactive energy : 1 (IEC61268) <i>Measurement method</i> Fast simultaneous sampling of the 3 voltages and the 3 currents. Digital calculation on 32 bits. <i>Display refreshing</i>, 2 times per second <i>Digital filtering</i> 3 programmable levels <i>Energies</i> Saved - Reading on 6 digits <i>Cycle time</i> 55ms (for all network types)			



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e-mail : info@ardetem.com
[http : //www.ardetem.com](http://www.ardetem.com)

Route de Brindas
Parc d'activité d'Arbora N°2
69510 SOUCIEU EN JARREST
FRANCE

Tél. : 33 4 72 31 31 30
Fax. : 33 4 72 31 31 31

Your representative