PROGRAMMABLE SETPOINT DETECTORS DS(C)v10I-IC / DAS(C)v10I-IC DS(C)v20I-IC / DAS(C)v20I-IC SFERE

ARDETEM

ARDETEN

124.8

M

Console

Features

- Universal power supply: 20 to 250 Vac and 20 to 250 Vdc
- Input:
 - Sensor of type NPN, PNP, logic, NAMUR, contact and alternating up to 500V (on input 1 only).
- Sensor supply
- Relay outputs (R): 2 change-over relays (8A/250 VAC on resistive load).

Sensor break detection (input NAMUR) and self-diagnosis.

Isolation between input/outputs/supply. Mode simulation allowing to validate the configuration or the installation. Programming either with the micro-console or by the PC software SlimSET via a standard USB / µUSB cable.



Functions

H1 H2 H3

no

R1 R2

ARDETEM

DSv

- Frequency measurement (from 0.01Hz to 130KHz) depending on the sensor type (DS(C)vxx/DAS(C)vxx I and IC).
- Counting up to 2 000 000 000 with saving of the counters (version DS(C)vxx/DAS(C)vxx IC).
- Calculation between channels (sum, substraction, average) (version DS(C)v20xx/DAS(C)v20xx).
- Detection of the rotation direction on encoder in phase quadrature (DS(C)v20xx/DAS(C)v20xx).
- Integration function (DS(C)vxxIC/DAS(C)vxxIC).
- Possibility to programme the 2nd input with function logic input (DS(C)v20xx/DAS(C)v20xx).
- 2 relays, independently programmable as alarm (setpoint) or pulses.

Configuration

Easy programming with a micro-console or by the PC software SlimSET (via a standard USB / µUSB cable).

Programming with the Micro-console

The graphical rear-lit LCD with tactile keyboard allows to visualise the following information:

- the value of the measure with its unit,
- the product tag name,
- the status of the relay outputs.
- Scrolling messages for programming help in various languages
- Passcode protected programming
- Programmable keys for direct access

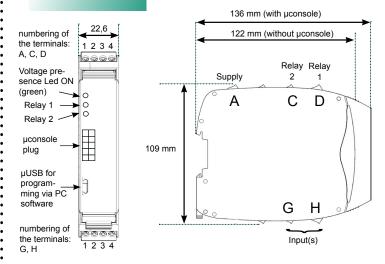
Programming by PC: SlimSET

Programming software (Windows environment) allowing:

The storage of configurations as files which can be consulted, modified, duplicated or loaded into the converters. The edition and printing of files with or without having a converter connected.

ETEM

Dimensions



Coding

		ARDETEM REFERENCE		SFERE REFERENCE	
		with display	without display	with display	without display
1 input	frequency	DSCv10I	DSv10I	DASCv10I	DASv10I
	frequency + counting	DSCv10IC	DSv10IC	DASCv10IC	DASv10IC
2 inputs	frequency	DSCv20I	DSv20I	DASCv20I	DASv20I
	frequency + counting	DSCv20IC	DSv20IC	DASCv20IC	DASv20IC





Input(s)

- · Sensor type: npn, pnp, logic, namur, contact, alternating
 - Logic: voltage up to 18V
 - Low level ≤1.2V
 - High level ≥ 2.1V
 - Npn or contact: U max.: 15V, I max.: 4mA
- Pnp: U max.: 20V, I max.: 2mA
- Namur:
- Input resistance: 1KΩ to the GND Low level ≤1.2mA High level ≥ 2.1mA
- Alternating (input E1 only): AC (L) from 2V to 250 Veff. AC (H) from 10V to 500 Veff. Input resistance: 1.2MQ
- Sensor supply:
- 18V±10%/20mA, or 8.5V ±0.5V/20mA if 1 of the 2 inputs is in namur Frequency measurement:
- from 0.01Hz to 130 KHz depending on the type of sensor
- accuracy 0.015% with gate = 100ms 0,1% in alternating input
- scale factor programmable
- special linearisation in 10 points (x and y).
- Integrator: on 1, 60 or 3600 seconds with programmable coefficient and unit.
- · Counting: from -2 Giga to +2 Giga with programmable coefficient and unit.
- Sum, substraction, average of the 2 input values and detection of the rotation direction on signals in phase quadrature.

Outputs

Types of OUTPUTS	Features		
2 change-over relays	2 setpoints per relay configurable over the whole MR. Hysteresis programmable from 0 to 100% Time delay programmable from 0 to 999.9 se (8A/250 VAC on resistive load)		

Others

Power supply: 20 to 250 Vac and 20 to 250Vdc Power consumption: 2.8 W max. 6 VA max. Dielectric hold: 3 kV-50Hz-1min. Operating temperature: -20 to +60°C Storage temperature: -20 to +70°C Installation: Pollution degree 2 / voltage surge III in AC input (H) and voltage surge II for other inputs.

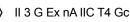
Protection: housing / terminals: IP 20 Removable terminal blocks for screwed connections (2.5 mm², flexible or rigid) Weight: 290g (with packaging) Self-extinguishing case of black UL 94VO PA66. Mounting in cabinet: latching on symmetrical DIN rail.

Compliance with standards:

Electrical safety EN 61010-1 ATEX 2014/34/UE (area 2) EN 60079-0, EN 60079-15 Directive EMC 2014/30/UE EN 61326-1

Marking:

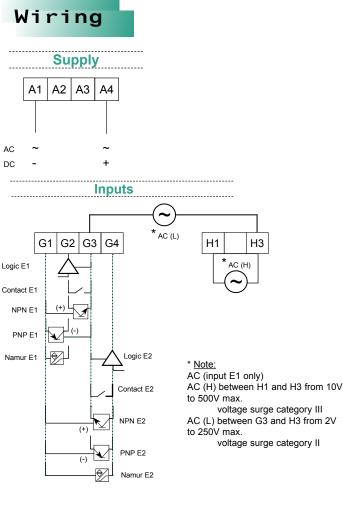






e-mail : info@ardetem.com http://www.ardetem.com

Route de Brindas Parc d'activité d'Arbora N°2 69510 SOUCIEU EN JARREST - FRANCE Tél. : 33 (0)4 72 31 31 30 Fax. : 33 (0)4 72 31 31 31



Relay outputs

