STCS - PHD Datasheet

The "Shrinking Tube Control System – Portable Hand Device" (STCS -PHD) consists in a shrinking system for wiring harness thermoplastic protections (sleeves), with control and monitoring, based on hot air devices especially designed for line panels applications.

The system has several working/setup configurations:

- It can work vertically or horizontally towards the line panel;
- It can work parallel (best suited for end-splices) or perpendicular towards the line panel (best suited for normal splices). This change can be done during work due to a rotating holder;
- It can use a vacuum pump or a blade for the holding system into the line panel.

The system is made by 2 separate parts: a control module and a shrinking system.

The control module is fixed outside the line and its connected to the shrinking system by a corrugated tube with 9 meters length (other lengths can be supplied on demand), that contains all wire and air connections.

It is possible to select from 2 different shrinking chambers: a standard size, with 80 mm length and 30 mm \emptyset ; and a large size, with 80 mm length and 50 mm \emptyset . The chambers can be easily removed, for easy cleaning or replacement (other sizes can also be supplied on demand).

The shrinking chamber has 2 side clamps to hold the cable during the shrinking process. In this way, the operator can perform other tasks during the shrinking operation. The system also allows to use a re-tractable end-splices tool.

The system allows to configure several parameters, such as: the process temperature, the cooling temperature, the shrinking time, etc.

The machine has 2 operating modes: MI with time/temperature monitoring/control; M2 similar to MI but with references: sequences of pre-programmed shrinking times (each reference can have from I to 20 shrinking times).

In M2 mode during execution, the references can be selected manually: using the keyboard or the rotating knob or automatically: using barcode readers.



Lighter, several working configurations, more ergonomic, easier maintenance, etc

FEATURES

SOME

New Model



- Several working configurations to accommodate all panel's applications;
- 2 different operating modes: M1 with temperature control and shrinking time; and M2 mode with references;
- Fast removable shrinking chamber for easy cleaning;
- Software can be modified to work with several communication systems (KSK for example);
- Automatic calibration (single cycle);
- Partial and global cycle counter;
- Special maintenance mode for hardware debug;
- Programming mode password protected;
- Several configurable languages, including: English, Portuguese, French and Spanish (or others on demand);
- Reference's programming manually or through a PC application (that reads Excel[™] files).



- Horizontal Holding
- Parallel Fixing
- Blade Support



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● TECHNICAL CHARACTERISTICS



STCS - PHD		
PROCESS TEMPERATURE		Vertical Holding
Minimum	20 °C	Parallel Fixing
Maximum	350 °C	Vacuum Support
Shrining System Dimensions		
Length	440 [mm]	•
Width	240 [mm]	
Height	190 [mm]	
Weight	6 [kg]	
POWER SUPPLY/CONSUPTION		
Supply	230 V @ 50 Hz; 7 A	
Standby Consumption	35 mA	and the second
Working Consumption	250 mA to 15 A	
CONTROL MODULE		- um
DIMENSIONS		
Length	273 [mm]	
Width	200 [mm]	
Height	140 [mm]	
Weight	3 [kg]	
Connections		
Compressed Air	Quick Hold Socket, Ø 10 mm; Min: 5 Bar ; Max: 6 Bar	
Electrical Grid	I IEC Standard Male Socket (Detachable Power Cord Supply)	
Barcode Reader/Communication socket	DB9 Male	
Programming	Membrane Keyboard, Barcode Reader	
Interface	LCD 16x2, Buzzer and LED	
Shrinking Chambers and Claws		
Standard Shrinking Chamber	L = 80 mm; Ø 30 mm	
Large Shrinking Chamber	L = 80 mm; Ø 50 mm	



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