

### Cabling

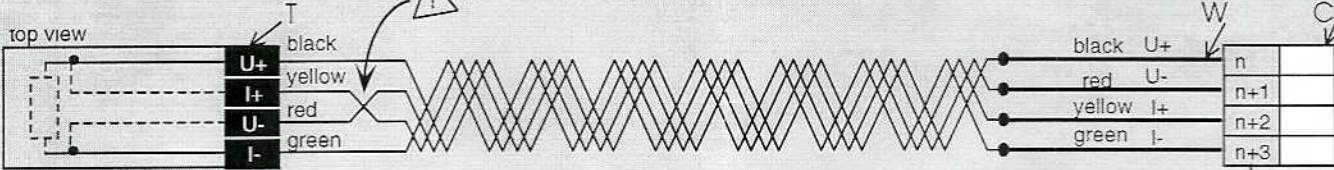
Thermometer Serial Number

**CX LS X013689**

Connector Tag Name

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top view



Fixing Case:

- Thread
- Hole
- Stud

Thermometer Cable for Type ST

$\rho$  (300 K) = 0.32 Ohm/m  
Copper AWG 30  
Length = 13 m

Extension

$\rho$  (300 K) = 0.07 Ohm/m  
Copper AWG 24  
Length: 0.8 m

### Checks

Intervention	Date/ Day-Month-Year	Check Point	R(U+,U-,I+,I-)/ Ohm 4W	R(U-,I-)/ Ohm 2W	R(U+,I+)/ Ohm 2W	R(U+,GND)/ Ohm 2W	Temperature	Firm/Laboratory	Checked by
Calibration	25-Oct-2000	T	60.56	X	X	OVL	Ambient	CERN	Vauthier
Reception	10-Jul-2001	T	59.65	0,2	0,2	OVL	19 Deg C	CERN	Grivat
Montage Fil	10-Jul-2001	W	59.65	8.7	8.6	OVL	19 Deg C	CERN	Grivat
		T W C							
		T W C							
		T W C							
		T W C							



Short Thermometer (ST) Traveller

Thermometer Serial Number	<b>CX LS X013689</b>
Thermometer Part ID	<b>HCQITESCXT-EC18551</b>
Dipol Part ID	

Magnet N°: 2020

Thermometer N°: CX-LS-X013689

# THERMOMETER TT821 VERIFICATIONS

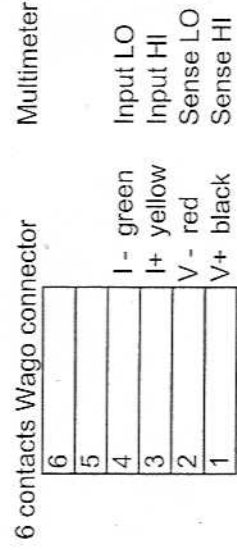
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Thermometer situation	Date	Cold mass Temperature °C	Resistance V+, V-, I+, I- Ω	Resistance V-, I- Ω	Resistance V+, I+ Ω	Resistance V+, V-, I+, I- / GND MΩ	Checked by	Remark
Expected value		10 < T < 32	Ref. Value (1) +/- 3Ω	Ref. Val.(1) +/- 1Ω	Ref. Val.(1) +/- 1Ω	R > 40		
Reference value given by CERN	10-07-2001	19	59,65	8,70	8,60	OVL	CERN	
At delivery	10-12-02	15	61,35	8,27	8,31	/	PAVESE	
After mounting on the half-yoke	08-01-03	6	62,30	8,08	8,20	OVLΔ	PAVESE	
After turning over of the half-yoke	23-5-03	23°C	59,74	8,18	8,08	OVLΔ	RUSSE	
After pressing of the yoke	03-06-03	25	59,43	8,33	8,18	OVLΔ	PAVESE	RIPIETUTA IL 5-6-2003: OK PAVESE
After longitudinal welding	10-06-03	23	59,19	8,19	8,17	OVLΔ	PAVESE	
After finishing of instrum. wiring	04-07-03	23	59,24	8,40	8,22	OVLΔ	PAVESE	
After complete electrical test	08-07-03	24	59,26	8,29	8,22	OVLΔ	PAVESE	
After welding of end covers	09-07-03	28	59,20	8,36	8,20	OVL	LEVERO	
After mounting of capillary (IFS)	15-7-03	27	59,06	7,81	7,77	OVL	LEVERO	
After pressure test	23-07-03	26	58,84	7,88	7,82	OVLΔ	PAVESE	
After complete electrical test	23-07-03	27	58,84	7,93	7,85	OVLΔ	PAVESE	

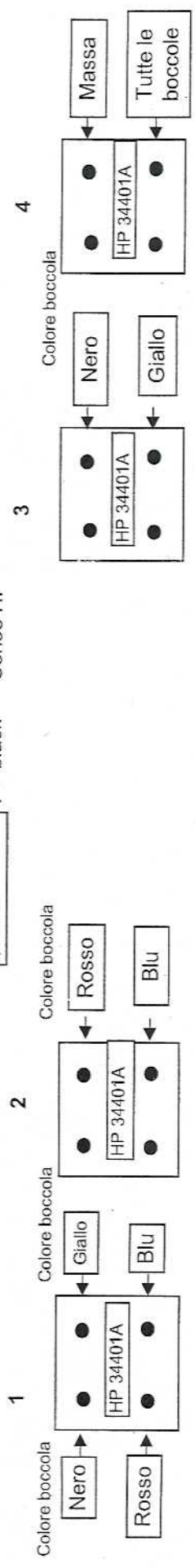
Ω4W meth.    Ω2W meth.    Ω2W meth.    Ω2W method

(1) The reference values are those written in the last row of the Thermometer Traveller supplied by CERN with the thermometer itself.  
For information the temperature sensitivity at ambient temperature is approximately -0.25 Ω / °C

Resistance measurements are performed with Keithley 2000 or Hewlett Packard 34401A multimeter.



Scheme for 4 wires resistance measurement method Ω4 function



MA032205

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