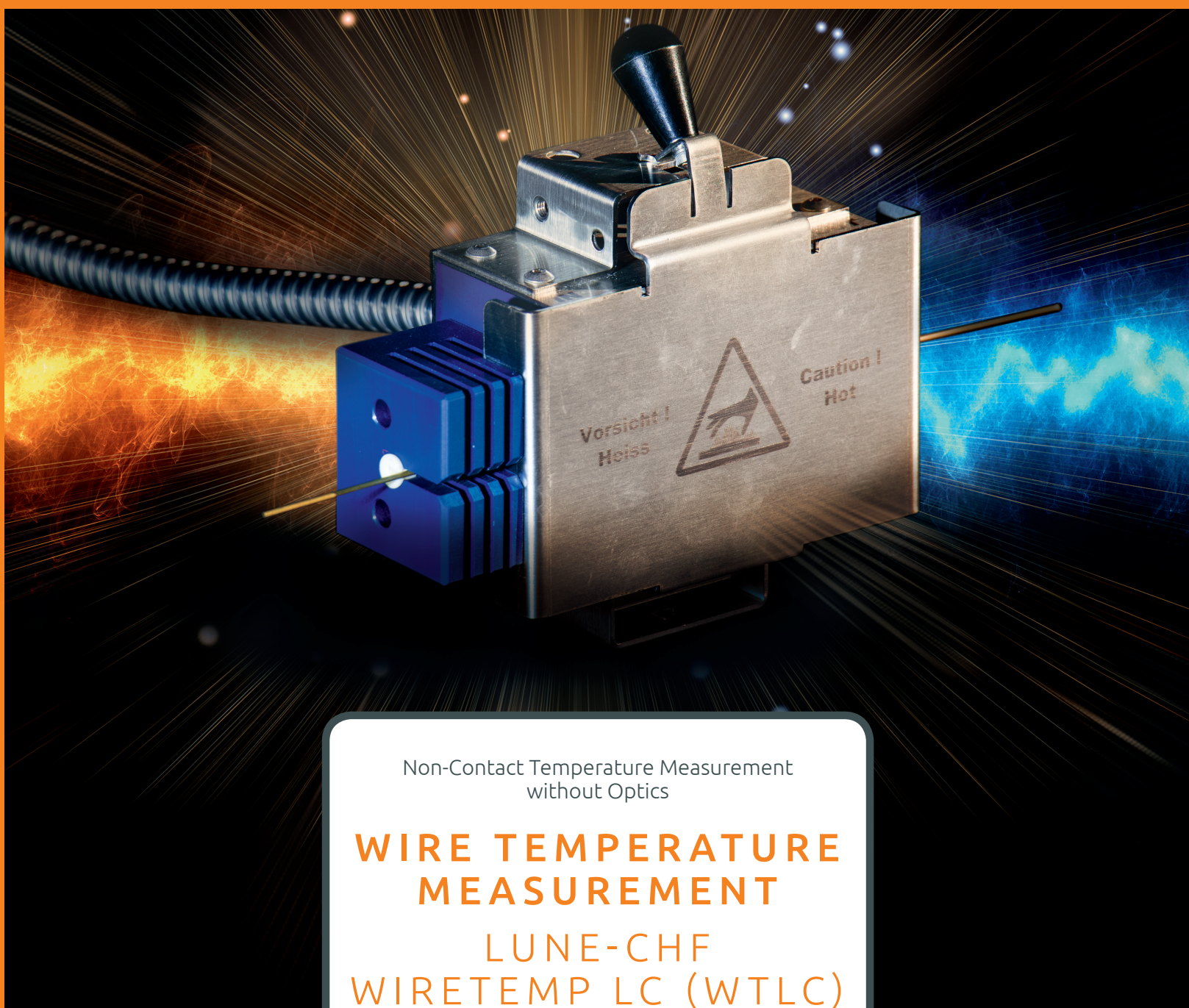




CONVECTIVE HEAT FLOW



Non-Contact Temperature Measurement
without Optics

WIRE TEMPERATURE MEASUREMENT

LUNE-CHF
WIRETEMP LC (WTLC)

www.lune-chf.com

WIRETEMP LC (WTLC)

WIRE TEMPERATURE MEASUREMENT

- Non-contact and precise temperature measurement in a temperature range from 10° to 300°C (50° to 572°F), 400°C (752°F) on request, at cables and wires using the Convective Heat Flow principle (without optics).
The WIRETEMP LC sensor heads cover diameters from 0.20 mm to 7.00 mm (0.005" to 0.28").
- The measurement is independent of influencing factors like colour, emission, speed, material, surface structure and varying distances between sensor head and wire.
- The sensor head is slotted and can be exchanged without interruption. There is no need to thread the wire.
- The double sensor head design allows auto calibration. The measurement system is maintenance-free.



1. SENSOR HEADS

Model numbers / versions

- | | |
|----------------------|---|
| • CHH7603-WTLC-X1-X2 | 0.20 to 1.90 mm, (0.008" to 0.07") 4 sensors, slotted sensor head |
| • CHH7604-WTLC-X1-X2 | 1.50 to 3.50 mm, (0.059" to 0.14") 4 sensors, slotted sensor head |
| • CHH7605-WTLC-X1-X2 | 3.00 to 5.00 mm, (0.118" to 0.20") 4 sensors, slotted sensor head |
| • CHH7609-WTLC-X1-X2 | 4.50 to 7.00 mm, (0.177" to 0.27") 4 sensors, slotted sensor head |

X1 = LV = heating cartridge voltage of 120 VAC, without code = 230 VAC (standard)
X2 = HT = temperature measurement range up to 400°C (752°F) (on request)

1.1 INTERCONNECTION CABLE

- | | |
|----------|--|
| • ICC300 | Interconnection cable between electronics and sensor head
Standard cable length 3 m (9.8 ft) |
| • IPC500 | Interpanel cable between EPC-1 electronics and EPC-2 panel-PC
Standard cable length 5 m (16.4 ft) |

1.2 TECHNICAL DATA*

SENSOR HEAD

Measurement range:	10° to 300° C (50° to 572°F)
Head speed:	max. 2500 m/min (8200 ft)
Power supply:	230 VAC (standard) or 120 VAC (LV code) from electronics via ICC cable
Power input:	300 VA max. for 5 min, usually approx. 40 VA depending on sensor head temperature

* weitere Technische Daten finden Sie im Benutzerhandbuch

2. LUXTRON AND IRCON SENSOR HEADS

Existing Luxtron and Ircon heads can be connected to the new lune-CHF electronics. In some cases a new ICC cable with adapter will be required. In addition, lune GmbH offers a repair and calibration service for all CHF heads manufactured by Luxtron and Ircon.

3. ELECTRONICS

The electronics is available in following versions:

- | | |
|-----------------|--|
| ❶ CHE8000-EIP | Portable electronics - (remote electronics with integrated panel PC) |
| ❷ CHE8000-EPC-1 | Remote electronics |
| ❸ CHE8000-EPC-2 | Panel PC |

3.1 ASSEMBLY TYPES / NETWORK CONNECTION

Electronics versions CHE8000-	TT	PM	SM	DIN	19"	LAN
EIP	✓	optional	N. A.	N. A.	optional	optional
EPC-1	N. A.	optional	✓	✓	optional	N. A.
EPC-2	✓	optional	optional	optional	optional	optional

(The panel PC EPC-2 is not mandatory for the operation of the measurement system)

- ✓ = Standard
TT = tabletop unit with folding feet or rubber feet (tabletop)
PM = mounting in control panel cut-out (panel mount)
SM = mounting on control panel or rear panel (surface mount)
DIN = mounting on DIN C-rail
19" = mounting in 19" rack
LAN = network connection



2 CHE8000-EPC-1



1 CHE8000-EIP



3 CHE8000-EPC-2

4. TECHNICAL DATA*

ELECTRONICS

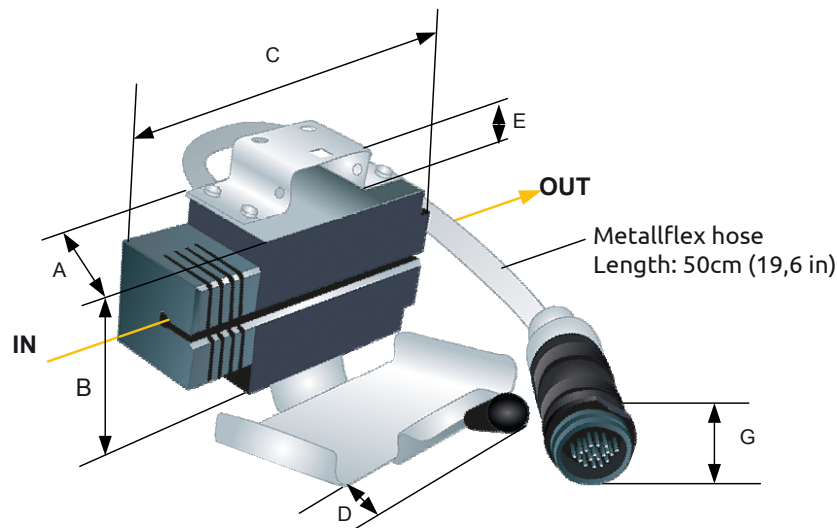
Display:	7" TFT colour display with resistive touch panel (only models EIP and EPC-2)
Accuracy:	+/- 0,50% of full scale
Repeatability:	+/- 0,25% of full scale
Resolution:	+/- 1° C (°F)
Time constant:	< 1 sec
Output:	0/4 - 20 mA, 0 - 10 VDC, -5 to +5 VDC (temperature difference)
Interfaces:	RS422; USB 2.0; optional LAN via panel PC
Temperature:	0° - 45° C (32° - 113°F)
Power supply:	110 VAC / 230 VAC; 50 / 60 Hz; range 85 - 264 VAC, 47 - 63 Hz
Power input:	approx. 15 W

* for further technical details pls. refer to the operating manual

5. Dimensions

Head CHH760X-WTLC, slotted
Dimension / weight

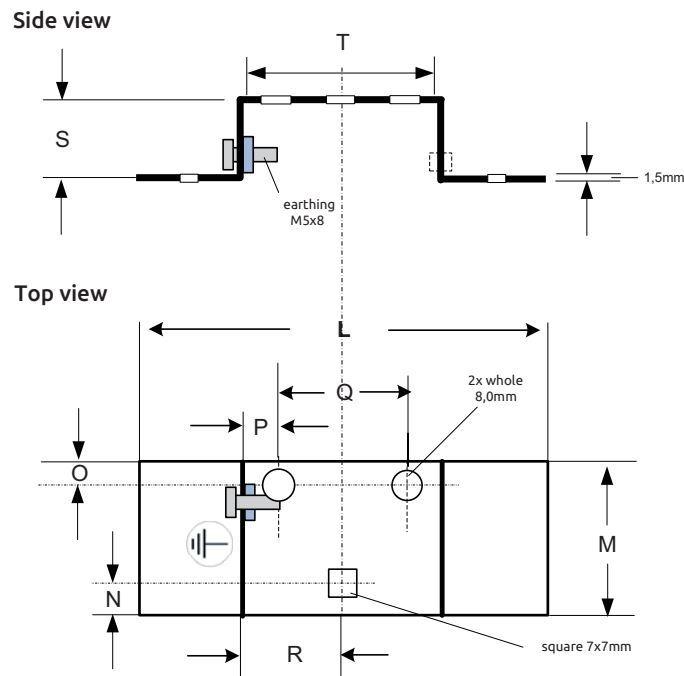
Dimensions head in mm (in)



Model	A	B	C	D	E	G
CHH760X-WTLC	54,0 (2,12")	82,0 (3,22")	148,0 (5,82")	54,6 (2,15")	39,8 (1,56")	47,1 (1,85")

Dimensions in mm; (inch)
Weight: 1,9 kg; (4,18 lbs)

Dimensions mounting bracket head in mm (in)



Model	L	M	N	O	P	Q	R	S	T
CHH760X-WTLC	100,0 (3,94")	38,5 (1,51")	8,0 (0,31")	6,5 (0,26")	10,0 (0,39")	31,0 (1,22")	25,5 (1,00")	20,0 (0,78")	48,0 (1,89")