



External HV connection box

- with 10 m special HV cable via LEMO.2P (Redel)
- isolated screw terminals in polymer box
- sensor cable entry via cable gland (PG)
- serves as flexible and safe cabling interface to any arbitrary user cable
- clear division between fully specified, HV-rated measurement module and suited HV-rated connectors on one side and custom and application specific cables and sensors on the other side that might comply with differing rules or regulations, under exclusive responsibility of the user

Specimen and special sensors HV-rated safe measurement system/connection scheme



Technical Data Sheet



Overview of the available variants

Order Code	LEMO.2P connection box for high voltage (HV) modules	article no.
ACC/HVBOX-8-T-10M	4-channel HV connection box for thermocouple type K	13500353
	high isolating box with 8 screw terminals, for four thermocouples with 10 m HV compatible cable and plug LEMO.2P (Redel) 8-pin, e.g. for CRFX/HISO-8-T-2L, CANFX/HISO8-T-2L	
ACC/HVBOX-8-10M	2-channel HV-connection box for voltage or PT100/PT1000	13500354
	high isolating box with 8 screw terminals, for e.g. two PT100 sensors with 10 m HV compatible cable and plug LEMO.2P (Redel) 8-pin, e.g. for CANFX/HISO8-4L modules	

Technical Specs

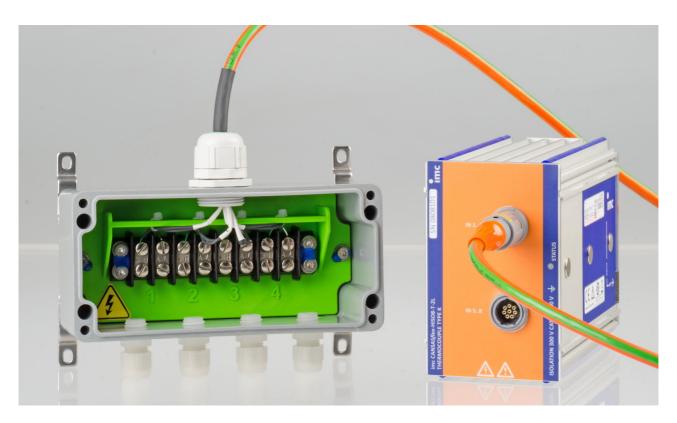
Input / Output			
Parameter	Value	Remarks	
Inputs HVBOX-8-10M	terminals (Cu) for two sensors (PT100/1000) or voltage signals	cable gland input 2 and 4 ex factory with blanking plug	
Inputs HVBOX-8-T-10M	terminals for 4 thermocouple type K	labeling in the box: CH = green wire = + AL = white wire = -	
Output Connector plug	1x 8-pin LEMO.2P (Redel)	for CRFX/HISO-8-T-2L, CANFX/HISO8-T-2L, CANFX/HISO8-4L	
Cable length	10 m	HV rated	

Isolation			
Parameter	Value	Remarks	
Isolation against accessible parts (case)	300 V CAT II 800 V	reinforced isolation	
	CAT 0		
Isolation of the measurement		basic isolation	
channels against each other	300 V		
(sensors)	CAT II		
	800 V		
	CAT 0		
Isolation test voltage	AC 3000 V	1 min.	
Operating temperature range	-20 °C to +80 °C		
Ingress protection class	IP65	only when the box is closed and when all gable glands properly sealed with cables	

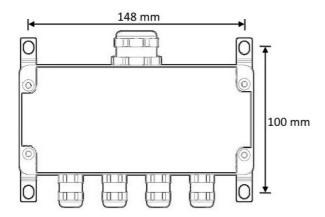
Dimensions, Weight			
Parameter	Value	Remarks	
External dimensions, W x H x D	160 x 75 x 77 mm	w/o screwings, w/o cable	
Weight	1.2 kg		

Technical Data Sheet





Mechanical drawings with dimensions



Symbols



Attention! Risk of electric shock. Dangerous voltages from the measuring sources may be applied to the terminals (HV onboard). Please observe the rated values!

Technical Data Sheet



Clamp configuration of the 2-channel HV-connection box: HVBOX-8-10M

Channel	Pin	Signal	cable coding single wire	
1	1	+IN1	ws	
	2	-IN1	bn	
	3	+11	gn	
	4	-l1	ge	
2	5	+IN2	gr	
	6	-IN2	rs	
	7	+12	bl	
	8	-12	rt	

Clamp configuration of the 4-channel thermo variant: HVBOX-8-T-10M



interior view

as an example, two wires are enlarged (+) left and (-) right for the fourth thermocouple

Terminal		Cable (Color Code)	
Signal / Material	Label	IEC 585-3	ANSI
(+) Ni-Cr	CH	green	yellow
(-) Ni or Ni-Al	AL	white	red

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imc ACADEMY - Training center

The safe handling of measurement devices requires a good knowledge of the system. At our training center, experienced specialists are here to share their knowledge.

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