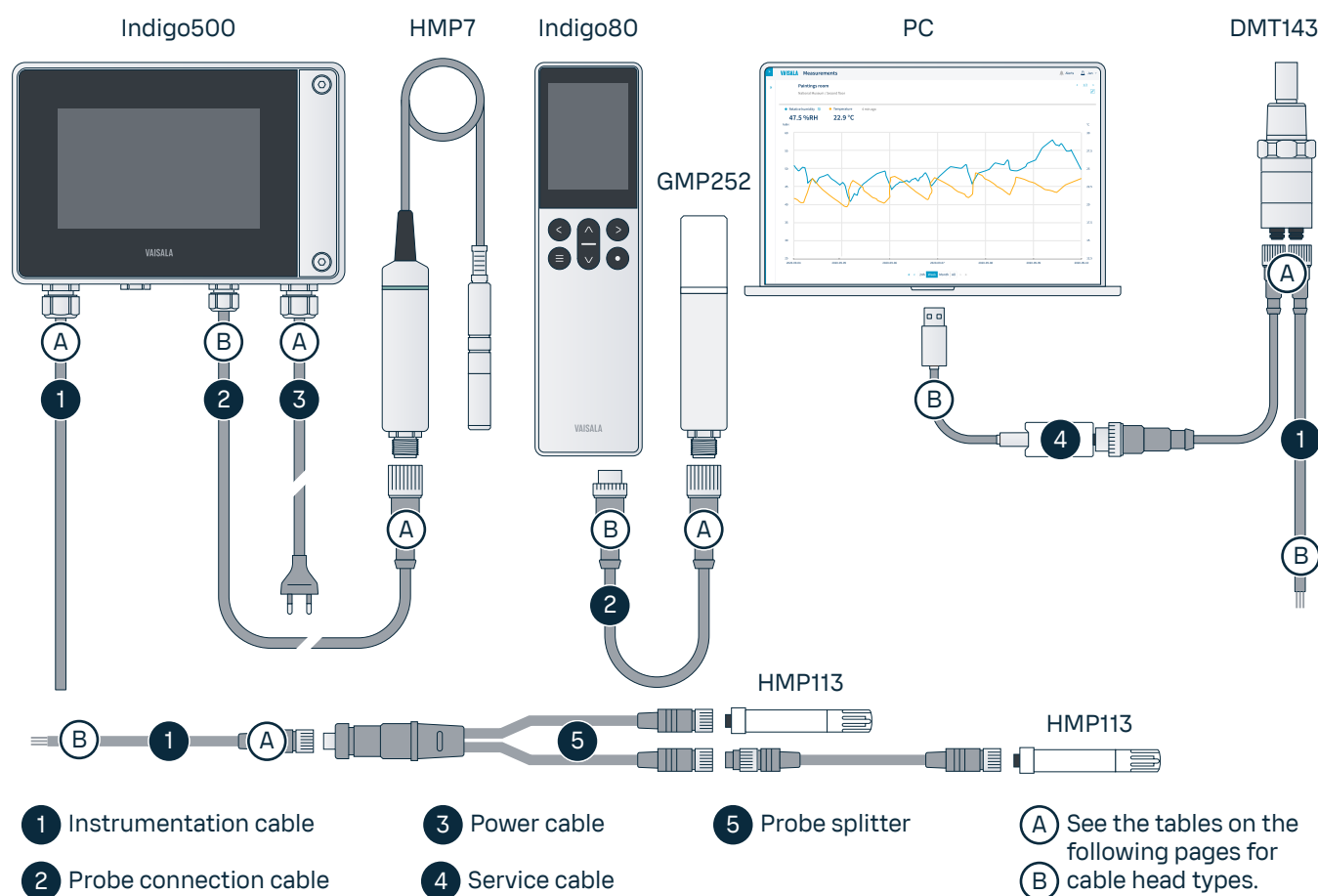




Vaisala instrument offering consists of transmitters, measurement probes, and transmitter/probe combinations that fulfill the measurement needs in different types of ambient and process conditions. In terms of usability, it is essential that cables of a suitable length are selected for the product already at the time of purchase.

However, it may be necessary to modify the existing cable setup, for example in case the measurement position or cable routing needs to be changed.

The purpose of this document is to illustrate Vaisala's industrial instruments cable offering, and to help you select the appropriate spare parts for your cable needs.

Probe connection cables and modular design

The Vaisala Indigo platform, Origo platform, and HMT120/130 and TMT120/130 series transmitters are built upon interchangeable probe architecture, where the cable from the probe to the transmitter can be configured in the ordering phase and replaced with a different length later, if needed. Indigo-compatible probes have a standard M12 5-pin A-coded connector, whereas the Origo platform and HMT120/130 and TMT120/130 series transmitters have standard M8 4-pin A-coded connectors.

The M8 4-pin connector type is widely used also with other Vaisala instruments. Cables that have a female connector at one end and a male connector at the other can be used as extension cables.

This is a convenient way to extend the cable length in situations where the originally planned cable length is not long enough.

Cable solutions for multi-probe configurations

The digital RS-485 protocol enables connecting multiple probes in a single bus. You can easily build your network of probes using probe connection cables and splitter cables with standardized connectors.

This ensures reliable connections and data traffic without the need to install any junction boxes in the field.

See the above figure for an example configuration of three HMP113 probes connected in a single bus.

CABLE TYPE		ITEM CODE	LENGTH (m)	HEAD A	HEAD B	DETAILS
HANDHELDS AND TRANSMITTERS Indigo-compatible cables						
Indigo80	Probe connection cable ¹⁾	INDIGOCABLE1M	1	M12-5F	M12-5M	Shielded, +80 °C
Indigo200		INDIGOCABLE3M	3	M12-5F	M12-5M	
Indigo300		INDIGOCABLE5M	5	M12-5F	M12-5M	
Indigo500		INDIGOCABLE10M	10	M12-5F	M12-5M	
		INDIGOCABLEHDM5	1.5	M12-5F	M12-5M	Shielded, hygienic design, +105 °C
		INDIGOCABLEHDM3M	3	M12-5F	M12-5M	
		INDIGOCABLEHDM5M	5	M12-5F	M12-5M	
		INDIGOCABLEHDM10M	10	M12-5F	M12-5M	
Indigo300	Probe connection cable, open wires	CBL210896-03MSP	0.3	M12-5F	Open wires	Shielded, wire lengths optimized for Indigo300 and Indigo500 use, +80 °C
Indigo500		CBL210896-1MSP	1	M12-5F	Open wires	
		CBL210896-3MSP	3	M12-5F	Open wires	
		CBL210896-5MSP	5	M12-5F	Open wires	
		CBL210896-10MSP	10	M12-5F	Open wires	
Indigo80	Probe connection cable	272075SP	1.5	M12-5F	M12-5M	Unshielded, for probes, +80 °C
		CBL210493SP	1	M12-5F	M12-5M	Flat cable ²⁾
		262195SP	1.5	M8-4F	M12-5M	Shielded, for instruments with M8 connector, such as HMP110, DMT143, or Indigo300, +80 °C
Indigo200	Service cable	USB2	0.5	M12-5F	USB-A	USB2 consists of an M12-5F dongle and a USB-C to USB-A cable. The USB-C to USB-A cable can be used as an Indigo200 service cable, and when the M12-5F dongle is attached, it can be used as a service cable for any probe used with the Indigo200.
	Instrumentation cable	(Not provided by Vaisala)	—	Open wires	—	Recomm. cable diameter: 7-8 mm
Indigo300	Service cable	262195SP + USB2	1.5	M8-4F	USB-A	
	Instrumentation cable	(Not provided by Vaisala)	—	Open wires	—	Recomm. cable diameter: 7-8 mm
Indigo500	Service cable	Standard Ethernet cable	—	RJ45	RJ45	For permanent installations: cable gland with split seal available
		262195SP + USB2	1.5	M8-4F	USB-A	
	Instrumentation cable	(Not provided by Vaisala)	—	Open wires	—	Recomm. cable diameter: 5-8 mm
	Power cable ³⁾	(See the Indigo520 order form at vaisala.com)	2.5	Open wires	Mains plug	Specify plug in the product configuration

1) Indigo80, Indigo200, and Indigo300 probe connection cables can be used as extension cables for Indigo500 probe connection cables and for standalone instruments with M12 5-pin connector.

2) Designed for use cases where a chamber door needs to close over the connection cable. The flat design minimizes gaps in the door seal and helps maintain the environmental conditions of the chamber. This design is fragile and may need occasional replacement.

3) Only available for Indigo520 configurations with mains powering option.

CABLE TYPE		ITEM CODE	LENGTH (m)	HEAD A	HEAD B	DETAILS
HANDHELDS AND TRANSMITTERS (continued)						
HMT120	Probe connection cable ¹⁾	HMT120Z120	1.2	M8-4F	M8-4M	Shielded, +80 °C
HMT130		HMT120Z300	3	M8-4F	M8-4M	
TMT120		HMT120Z500	5	M8-4F	M8-4M	
TMT130		HMT120Z1000	10	M8-4F	M8-4M	
		HMT120Z2000	20	M8-4F	M8-4M	
	Service cable	219685	1.4	RJ45	USB-A	Serial cable
	Instrumentation cable	(Not provided by Vaisala)	—	Open wires	—	Recomm. cable diameter: 2-6 mm
PROBES AND COMPACT TRANSMITTERS						
DMT132	Instrumentation cable	HMP50Z032SP	0.32	M8-4F	Open wires	Shielded, +60 °C
DMT143		HMP50Z120	1.2	M8-4F	Open wires	
DMT152		HMP50Z300SP	3	M8-4F	Open wires	
DPT145		HMP50Z500SP	5	M8-4F	Open wires	
DPT146		HMP50Z1000SP	10	M8-4F	Open wires	
HMP60		225777SP	1.5	M8-4F	Open wires	Shielded, +80 °C
HMP63		225229SP	3	M8-4F	Open wires	
HMP110		236407SP	15	M8-4F	Open wires	
HMP113		235859SP	20	M8-4F	Open wires	
XMP10		231519SP	1.5	M8-4F 90°	Open wires	Shielded, 90° connector, +80 °C
		231520SP	3	M8-4F 90°	Open wires	
		231521SP	5	M8-4F 90°	Open wires	
		231522SP	10	M8-4F 90°	Open wires	
		238025	1.5	M8-4F	Open wires	Shielded, FEP, +180 °C
		226902SP	3	M8-4F	Open wires	
		211598	2	M8-4F	Open wires	Snap-on connector, +90 °C
	Splitter cable	284332	0.2	2 × M8-4F	M8-4M	
	Probe connection cable	CBL210649SP	1	M8-4F	M8-4M	Flat cable ²⁾
	Service cable	219690 ³⁾	1.4	M8-4F	USB-A	—

1) Origo10, HMT120/130 and TMT120/130 probe connection cables can be used as extension cables for standalone instruments with M8 4-pin connector.

2) Designed for use cases where a chamber door needs to close over the connection cable. The flat design minimizes gaps in the door seal and helps maintain the environmental conditions of the chamber. This design is fragile and may need occasional replacement.

3) 262195SP + USB2 can be used instead of 219690

CABLE TYPE		ITEM CODE	LENGTH (m)	HEAD A	HEAD B	DETAILS
PROBES AND COMPACT TRANSMITTERS (continued)						
DMP Series	Instrumentation cable	223263SP	1.5	M12-5F	Open wires	Shielded, +80 °C
HMP Series		26719SP	3	M12-5F	Open wires	
DMP80 Series		216546SP	10	M12-5F	Open wires	
HMP80 Series						
MMP Series		26720	5	M12-5F	Open wires	
GMP250 Series		254294SP	1.5	M12-5F	Open wires	Unshielded, hygienic design, +105 °C
HPP270 Series		254295SP	3	M12-5F	Open wires	
DMT153		254296SP	5	M12-5F	Open wires	
		254297SP	10	M12-5F	Open wires	
		244669SP	0.6	M12-5F 90°	Open wires	
		255102	1.5	M12-5F 90°	Open wires	Shielded, 90° connector, +80 °C
	Probe connection cable	CBL210493SP	1	M12-5F	M12-5M	Flat cable ¹⁾
	Service cable	USB2	0.5	M12-5F	USB-A	—

1) Designed for use cases where a chamber door needs to close over the connection cable. The flat design minimizes gaps in the door seal and helps maintain the environmental conditions of the chamber. This design is fragile and may need occasional replacement.



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