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COMPARISON TABLE

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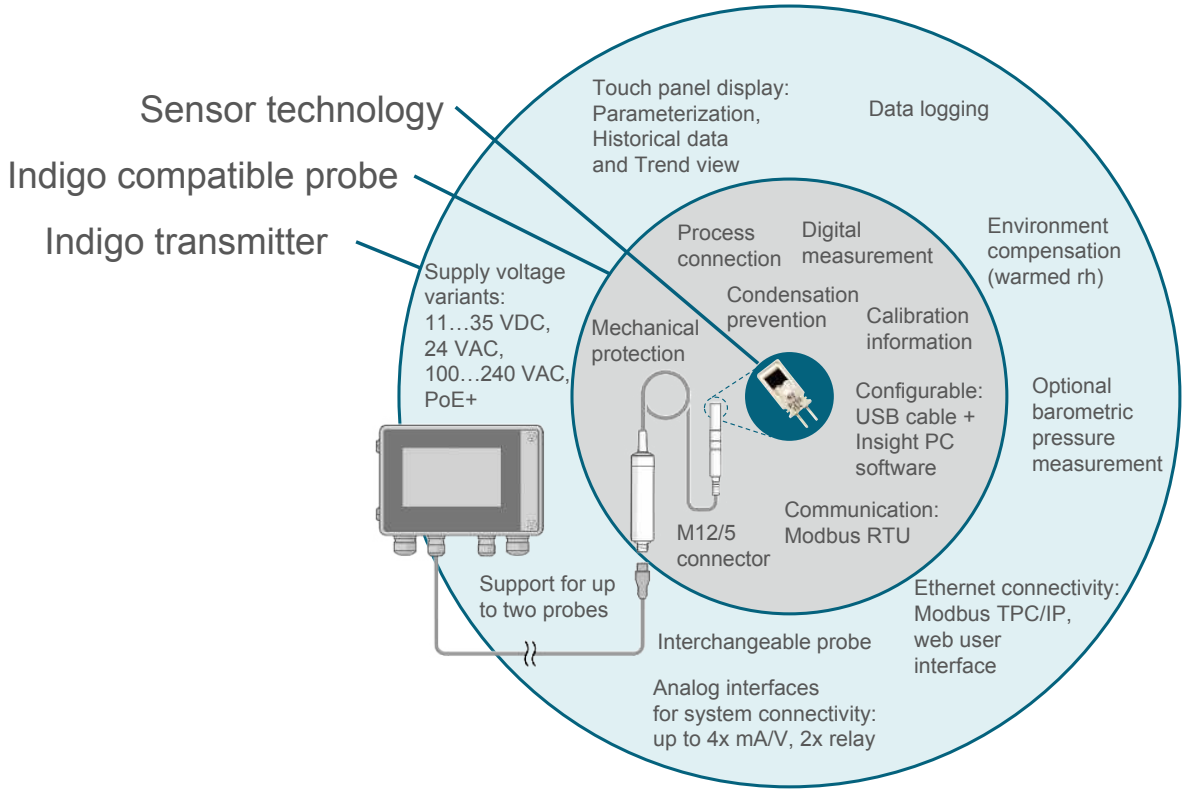
Indigo smart probe platform – the true value of a measurement comes from a combination of sensor technology and usability

The main purpose of an industrial measurement instrument is to provide information from the physical world to help in decision making. The typical use for this information is often related to energy savings and quality improvement. The optimum target can only be reached if the measurement data is reliable.

Vaisala instruments are designed and manufactured to utilize our own in-house sensor technology. This sensor technology is the foundation on which other features of a product are built. Features such as interchangeable probes improve the product usability and lower the threshold for maintaining the best possible measurement performance. Gaining the best value from the measuring device is achieved by choosing the right measuring technology and considering usability and maintenance aspects. This is what the Vaisala Indigo platform is all about.

The Indigo platform is built on top of the core sensor technology. An Indigo-compatible probe provides the measurement and basic functionality, meaning the probe can be used as a standalone measurement instrument. Extended features, and often the best usability, are achieved by connecting the probe with an Indigo transmitter. The following table highlights some of the essential functions and features of a standalone probe compared to the combination with a transmitter.

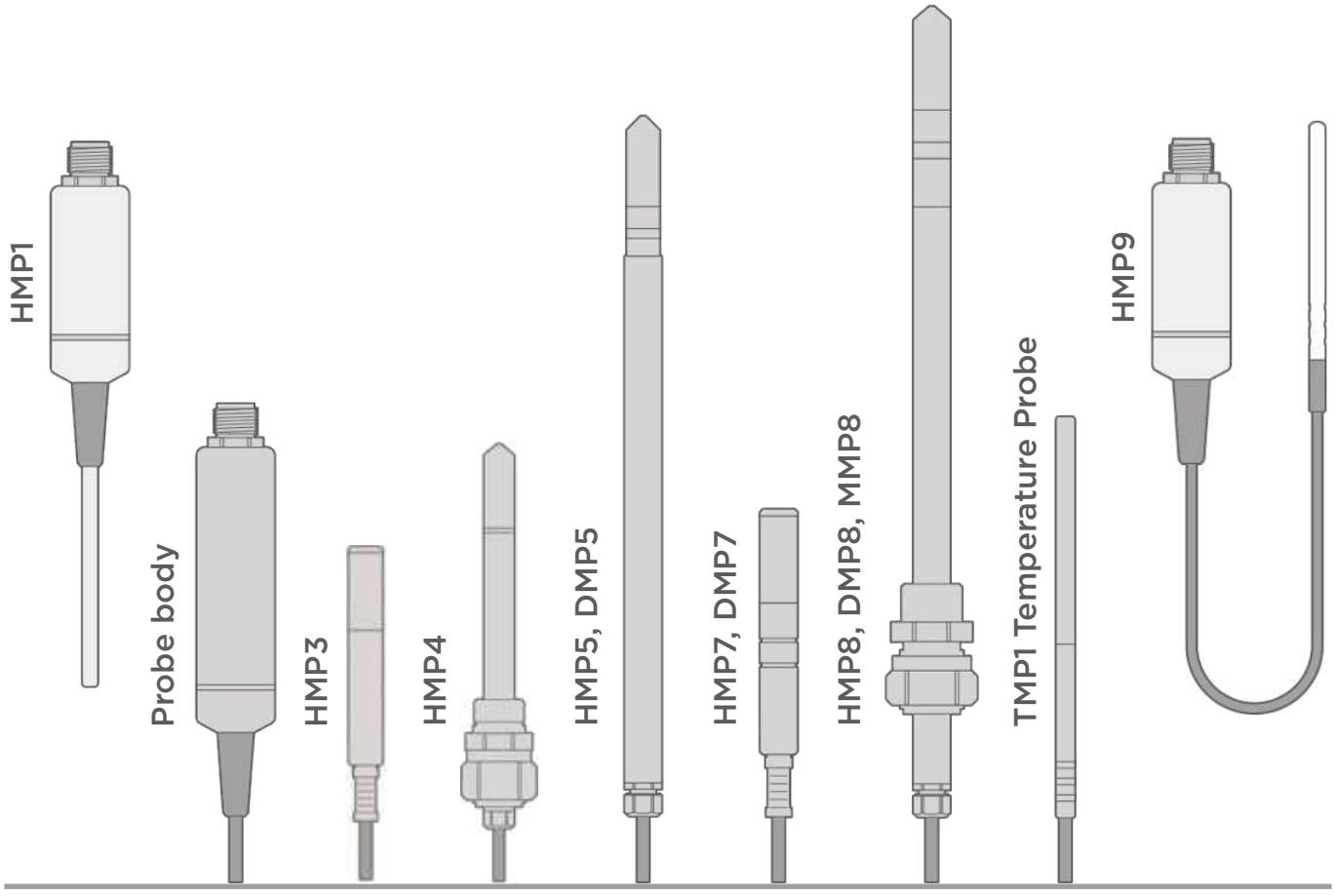


Comparison of Indigo transmitters and Indigo compatible probes for humidity applications

FEATURES AND FUNCTIONALITIES					
Features	**Indigo Probe: HMPx, DMPx, MMPx**	**Indigo201, Indigo202**	**Indigo510**	**Indigo520 (PELV or AC)**	**Indigo520 (PoE+)**
Operating voltage	Standalone: ** 15 ... 30 VDC Otherwise powered by the host device	** 15 ... 30 VDC, 24 VAC	11 ... 35 VDC, 24VAC	Configurable in order phase: 15 ... 35 VDC / 24 VAC, 100 ... 240 VAC	Configurable in order phase: PoE+
Probe connection	Interchangeable probe with M12 5-pin connector	Directly to the host, or with intermediate M12 5-pin cable	M12 5-pin cable with configurable length	M12 5-pin cable with configurable length. **Support for up to two probes simultaneously**	
Display	-	Optional	Optional		
Human-machine interface	-	WLAN + smart phone or PC	* Touch screen		
Connectivity to PC	USB-cable + Free Insight PC software	WLAN + built-in web server	RJ45-ethernet cable + built-in web server		
Analog outputs	-	Indigo201: 3 outputs	2 outputs	4 outputs	-
Relays	-	Indigo201: 2 relays	-	2 relays	-
Digital communication	Modbus RTU	Indigo 202: Modbus RTU	Modbus TCP/IP		
Barometric pressure measurement	-	-	-	Optional	
Operating temperature	-40 ... +60 °C	-40 ... +60 °C * -20 ... +60 °C	-40 ... +60 °C *-20 ... +60 °C		
IP rating	IP66	IP65	IP66		
Signal and supply voltage connections	M12 5-pin connector	Screw terminals	Screw terminals with configurable cable glands and conduit fittings		RJ-45 connector with cable gland
Datalogging	-	-	Standard feature		

* With display
** Minimum voltage for HMP7 is 18 VDC

PROBES FOR HUMIDITY APPLICATIONS			
Application / Technology	**Normal to high humidity / HUMICAP® HMPX**	**Dry conditions / DRYCAP® DMPX**	**Moisture in oil / HUMICAP® MMPx**
Fixed/wall installation	**HMP1**	-	-
General purpose probe	**HMP1**, **HMP3**, **HMP9**	**DMP7**	**MMP8**
High pressure/vacuum	**HMP4**, **HMP8**	**DMP8**	**MMP8**
High humidity	**HMP7**	-	-
High temperature	**HMP5**	**DMP5**, **DMP6**	-



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