Comparison Chart of 1056, 1057 & 56 pH, ORP, Ion Selective and Conductivity Transmitters

Feature	1056	1057	56
Enclosure	NEMA 4X	NEMA 4X	NEMA 4X
Agency Approvals	CE, CSA, FM, UL	CE, CSA, FM, UL	CE, CSA, FM, UL
Power Operation	115/230VAC or 24VDC	115/230VAC or 24VDC	115/230VAC or 24VDC
Scalable 0/4-20mA Output	Yes	Yes	Yes
Number of 0/4-20mA Output	2 each	4 each	4 each
Trim for each 0/4-20mA	Yes	Yes	Yes
Maximum Inputs	2 each (ISE/pH/ORP/Cond)	3 each (ISE/pH/ORP/Cond)	2 each (ISE/pH/ORP/Cond)
Preamplifier Support for pH/ORP/ISE Sensors	Yes, Max 300 feet total cable length with preamp	Yes, Max 300 feet total cable length with preamp	Yes, Max 300 feet total cable length with preamp
Relay for Alarm/Control	Yes, with -02 or -03 option only, 4 each	Yes, 4 each	Yes, 4 each
Type of Relay Control	On/Off Only	On/Off Only	On/Off or PID/TPC (Standard)
Digital Output Options	None Standard, HART & ProfiBUS Optional	None	HART Standard, ProfiBUS optional
Remote Monitoring/Datalog	Yes with HART/ProfiBUS	NO (from 4-20mA Only)	Yes with HART/ProfiBUS
Display	Large Screen LCD	Large Screen LCD	Large Screen LCD (Color/Graph)
Interface	Menu-Driven Software	Menu-Driven Software	Menu-Driven Software
Manual Entry of sensor slope and offsets	Yes, Using Calibration Menu Interface	Yes, Using Calibration Menu Interface	Yes, Using Calibration Menu Interface
Buffer Cal for slope & offset	Yes for both Slope & Offset	Yes for both Slope & Offset	Yes for both Slope & Offset
Process Offset to Agree with Grab Sample Analysis	Yes ("Standardize" Calibration)	Yes ("Standardize" Calibration)	Yes ("Standardize" Calibration)
ISE Ranges Supported	0 to 9,999 ppb, 0 to 9,999 ppm, 0 to 99.99%	0 to 9,999 ppb, 0 to 9,999 ppm, 0 to 99.99%	0 to 9,999 ppb, 0 to 9,999 ppm, 0 to 99.99%
pH Compensation for ISE	No	No	Yes
pH Range Supported	0-14	0-14	0-14
ORP Range Supported	-1500 to +1500 mV	-1500 to +1500 mV	-1500 to +1500 mV
Conductivity Cell Constant and Corresponding Maximum Range Supported	Cell from 0.01 to 10.0, user selectable; Ranges from 0-200μS (0.01/cm) to 0-200mS (10.0/cm) as mates with cell	Cell from 0.01 to 10.0, user selectable; Ranges from 0-200μS (0.01/cm) to 0-200mS (10.0/cm) as mates with cell	Cell from 0.01 to 10.0, user selectable; Ranges from 0-200μS (0.01/cm) to 0-200mS (10.0/cm) as mates with cell
Toroidal Conductivity Sensor (Inductive Contactless)	Any toroid sensor w/ compatible 20/20 Windings & Pt1000 TC	Any toroid sensor compatible 20/20 Windings & Pt1000 TC	Any toroid sensor w/ compatible 20/20 Windings & Pt1000 TC
TC Elements Supported	Pt100 or Pt1000	Pt100 or Pt1000	Pt100 or Pt1000
Supported TC Range	0-150°C for pH & ISE, 0-200°C for Conductivity	0-150°C for pH & ISE, 0-200°C for Conductivity	0-150°C for pH & ISE, 0-200°C for Conductivity
Datalogging Supported	HART/ProfiBUS	None (from 4-20mA Only)	Yes (USB Download, 30 days)
Primary Advantages	* ½-DIN Form Factor suitable for panel and field (pipe/wall mounting) installations * Large LCD display, easy to use menu-driven interface * Cost effective in dual channel configurations and/or when alarm/control relays are required * HART and ProfiBUS are supported as options	* ½-DIN Form Factor suitable for panel and field (pipe/wall mounting) installations * Large LCD display, easy to use menu-driven interface * Cost effective in triple channel configurations when alarm/control relays required * 4 each 4-20mA Analog Outputs Standard	* ½-DIN Form Factor suitable for panel and field (pipe/wall mounting) installations * Large Color LCD Display with Graphing of historical trends * Cost Effective Option when HART and/or Datalogging is required (both standard) * Ideal for applications where pH Compensation for ISE is required * Full PID and TPC algorithms are standard for advanced control * Profibus available as option

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