

Fieldbus Comparison Chart

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	Foundation Fieldbus		DP	Profibus		DeviceNet	AS-i	Modbus	HART
	H1	HSE		PA	FMS				
Website	http://www.fieldbus.org		http://www.profibus.com			http://www.odva.org	http://www.as-interface.com	http://www.modbus.org	http://www.hartcomm.org
Intrinsically Safe	Yes	No	No	Yes	No	No	No	No	Yes
Operating Voltage	9-32 VDC								
Maximum Cable Length	1900m	100m 2km with FO	100m - 24km	1900m	200m - 19.2km	100 - 500m 5km with repeaters	100m 300 with repeater	1200m	2000m
Governing Standard(s)	IEC-61158-2 ISA S50.2	IEEE 802.3u ISO/IEC 8801-3	EN50170 DIN 19245 p3	IEC-61158-2 DIN 19245 p4	EN13321/1 DIN 19245	ISO 11898 ISO 11519	IEC-62026-2 EN50295, IEC947	EN1434-3 IEC870-5	FSK modulation on 4-20mA signal
Communication Methods	Client/Server Publisher/ Subscriber Event Notification	Client/Server Publisher/ Subscriber Event Notification	Master/Slave Peer to Peer	Master/Slave Peer to Peer	Master/Slave Peer to Peer	Master/Slave Multimaster Peer to Peer	Master/Slave with cyclic polling	Master/Slave	Master/Slave
Communication Speed	31.25 kbits/s	100 Mbits/s	1.5 -12 Mbits/s	31.25 kbits/s	9.6 - 500 kbits/s	125 - 250 - 500 kbits/s	167 kbits/s	9.6 -115.2 kbits/s	1200 bits/s
Media Access algorithm	Token passing	Token passing	Token passing	Token passing	Token passing	CSMA/CD DA	Cyclic Polling	Token passing	NA
Max. Data Size	246 bytes	246 bytes	246 bytes	246 bytes	246 bytes	8 bytes	8 bits 4 input, 4 output	250 bytes (125 registers)	8 bits
Max. Stations	32 devices	Uses IP Addressing essentially unlimited	127 devices	32 devices	127 devices	64 devices	31 slaves	247 per network	15 slaves

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Please obtain the relevant standards to verify the information provided.