INSTRUMEN

Comparing Key Performance Criteria of Industrial Digital Protocols

| | EtherNet/IP | Ether CAT. | 00000° | PROPUS TRUST | DeviceNet >> | Fieldbus | $HART \!$ | RS-485 |
|--------------|------------------------------|---------------|-----------------------------------|---------------------|----------------------------------|---------------|---|---------------------------------|
| NOOES 🔐 | Unlimited | 65,535 | Unlimited | 127 | 64 | 240 | 15 | 16 |
| MLD PATES | 10 100 1 MBPS, MBPS, GBPS | 100 MBPS | 100 1 MARPS, GRES | 1200-12 | 325 | 31,25 | 1200 | 1200-11 |
| MESSACE (B) | 511 myres | 1500 BYTES | 1440 | 244 BYTES | 8 eytes | 240 sortes | 31 sortes | 24 BYTES |
| TOPOLOGY (A) | P MULTI | 83 | MULTI DROP RING, STAR, TREE | MULTI | no Amos | ma Allinon | FORM FORM | MULTI DROP DAISY CHAIN |
| MESSAGE (D) | PRODUCER-CONSUMER | P2P ₹ | PRODUCEA -CONSLANEA ARTWORK | AMERICA SALAS FOLL, | MATERIA AT POUR, EDVICE CHOIC | PREAPER CYCLE | - FR. 1874 | MANSTON LAND FOLL |
| CALING 🙃 | STANDARD | STANDARD | STANDARD | PRE-DEFINED | PRE-DEFINED | PRE-DEFINED | 2 - WRE (4 - 20 mA) | PROPRIETARY |

KEY ADVANTAGE



Exceptional performance, flexible topologies, full duplex, self-terminating, easy to c

Widely used and field proven industry standards communication protoco



RS-485

Widely accepted, ideal for set-up, diagnostics and troubleshooting, easy implementation 4-20 m/s signal lines, easy to use with HART hand held communicator, can be used effect



Good for small automation projects or systems, supports typical topologies used in small syste custom tools and software (DDE, DLL, 0350 Smart Interface), simplifies installation