



TP-9000

iDDS Translator for the NetScanner

Chell Instruments

- **iDDS Translator for the TE 9016 / 9116 and 9216 pressure scanner products.**
- **Complete with PoE adapter to provide power to the 9216 (conforms to IEEE 802.3at).**
- **Auto sensing DC / PoE.**
- **Integrated mount for 9216.**
- **Provides IEEE 1588 PTPv2 time stamping to older 9016 / 9116 units.**
- **Rugged enclosure for on-vehicle applications. Sealed to IP67.**
- **Fully configurable over Ethernet with embedded web server.**
- **Complete with flying lead and connector to connect with the pressure scanner.**



The TP-9000 is an iDDS and Power-Over-Ethernet (PoE) interface for the 9216, 9116 and 9016 pressure scanners. It effectively brings these pressure scanners up to the latest interface standards. The TP-9000 and NetScanner brick can be powered either by PoE or 24 VDC. The TP-9000 will automatically configure itself for the power supply that is available.

The TP-9000 will acquire data from the NetScanner at speeds of up to 100Hz per channel using its hardware trigger to synchronise the data. This data is then time stamped (to IEEE 1588 PTPv2) and made available on the iDDS network.

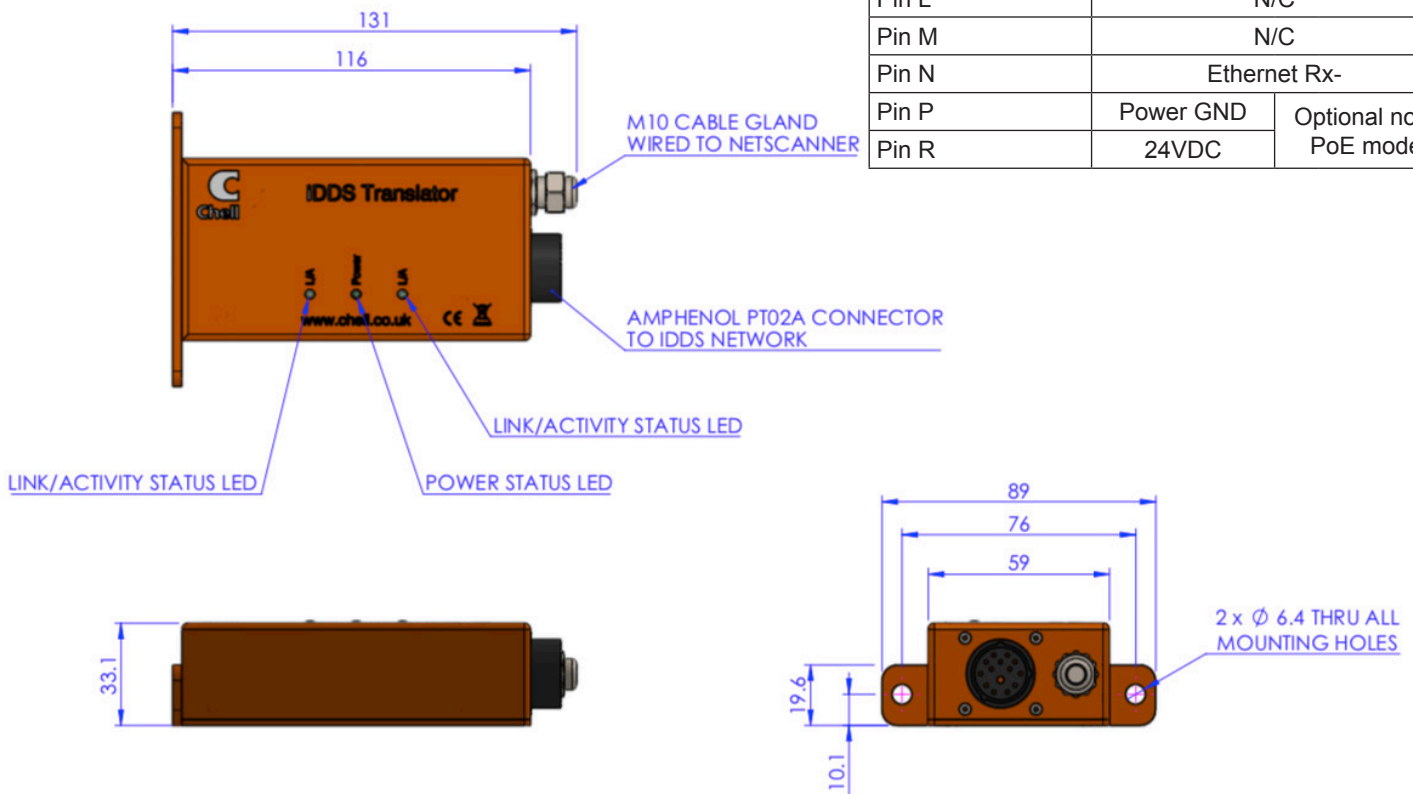
In addition, control of the pressure brick such as re-zero, purge etc can be accomplished over the iDDS network.

The TP-9000 will support configuration via XML file from a suitable configuration server.

The embedded web server within the TP-9000 gives the user an intuitive means of low-level configuration of the TP-9000.

TP-9000 Specifications	
iDDS Specification.	Version 2, draft 4
Input connector	PT02A14-15P-025 (MIL-26482 -Series I) or M12 X-Coded TE2232331-1
Output connector (on flying lead to NetScanner)	PT06A14-15S-025
Enclosure sealing	IP67
Maximum acquisition Speed (measurements / channel / second).	100
Power supply	PoE IEEE 802.3at

TP-9000 Connector pin-out		
Mating Connector	PT06A14-15S-025 or 62GB-56T-14-15SN	
Pin A	Ethernet Rx+	
Pin B	Ethernet Tx+	
Pin C	Ethernet Tx-	
Pin D	Trigger In	
Pin E	Trigger Ref	
Pin F	N/C	
Pin G	GND	Option RS232 NetScanner Diagnostic
Pin H	TX	
Pin J	Rx	
Pin K	N/C	
Pin L	N/C	
Pin M	N/C	
Pin N	Ethernet Rx-	
Pin P	Power GND	Optional non-PoE mode
Pin R	24VDC	



TP-9000 Environmental Specifications	
Ambient altitude	100 mbar abs or nominally 52000 ft
Vibration	Engine standard vibration test to DO160E category S, curve W with duration of 1 hr/axis. Fan blade out case to DO160E category S, curve P.
	Fan blade out to DO160F section 7 (40g 11m/s)
	Engine load to +/- 40g per axis
Operating temperature range	-20 to+90°C
Storage temperature range	-20 to+90°C
Maximum relative humidity	95% at 50°C (non-condensing)
Radiated emissions	MIL standard 461-E: RE102
Conducted emissions	MIL standard 461-E/MIL standard 461-C



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