



TP-9000

iDDS Translator for the NetScanner

- **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.

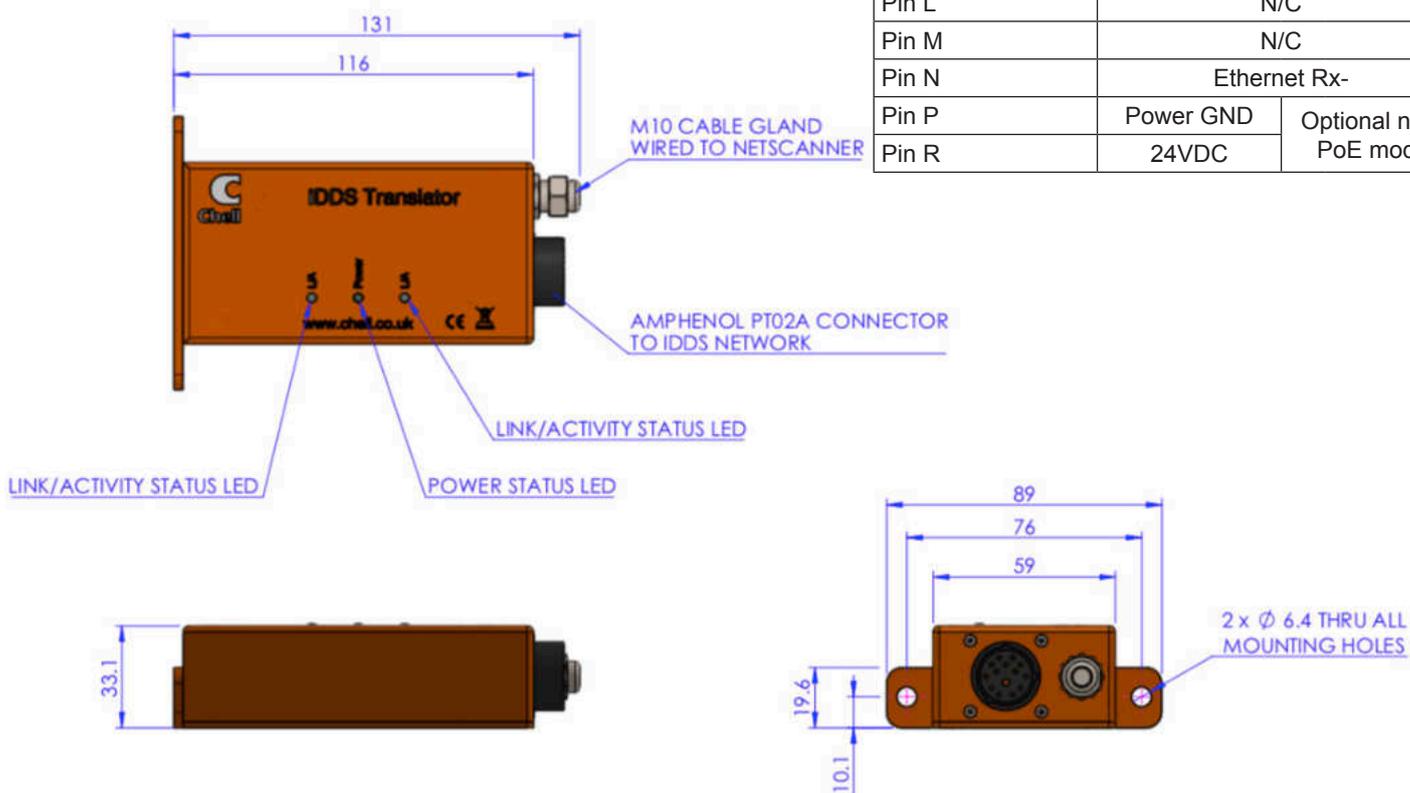
In addition, control of the pressure brick such as re-zero, purge etc can be accomplished over the iDDS network.

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 |



Chell Instruments Ltd
Folgate House
Folgate Road
North Walsham
Norfolk NR28 0AJ
England



FS 613920

Tel.: +44 (0)1692 500555
Fax: +44 (0)1692 500088

E-mail : sales@chell.co.uk



0687