



PT4

PT4-Lux

General Information and technical data:

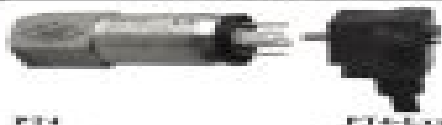
Pressure Transmitters convert a pressure into a linear electrical output signal.

Type	Range	IPX	Max. working pressure	PT
PT4-B7S	0 ... 1bar	15bar	25bar	27.5bar
PT4-B5S	0 ... 15bar	15bar	15bar	15bar
PT4-B0S	0 ... 25bar	15bar	15bar	15bar
PT4-B0S	0 ... 35bar	35bar	15bar	15bar

- All pressures are gauge pressures
- Supply voltage: 0...30V DC, class 2
- Permissible error & ripple: $< \pm 1 V_{FS}$
- Dimensions (mm) see Fig. 3 and 4
- Connectable under IEC Directive 90/269/EEC, 91/269/EEC, 90/268/EEC, 90/269/EEC, 90/269/EEC
- Protection (IPXX) according to EN 60529 (with connector PT4-Lux)

Safety Instructions:

- Read installation instructions thoroughly. Failure to comply can result in device failure, system damage or personal injury.
- It is intended for use by persons having the appropriate knowledge and skills. Before attempting to install the PT4 make sure pressure in system is brought to rest, remains at atmospheric pressure.
- Do not exceed the specified voltage and pressures.
- Do not use any other field media without prior approval of ALCO Controls.
- Compliance with local electrical regulations when wiring.
- Electronic devices are subject to electro-magnetic interference. Ensure that all components in the system are sufficiently protected.



PT4

PT4-Lux

Allgemeine Information und Technische Daten:

Der PT4 Drucktransmitter wandelt den Druck in ein lineares, proportionales Ausgangssignal.

Type	Bereich	IPX	Max. Arbeitssdruck	PT
PT4-B7S	0 ... 1bar	15bar	25bar	27.5bar
PT4-B5S	0 ... 15bar	15bar	15bar	15bar
PT4-B0S	0 ... 25bar	15bar	15bar	15bar
PT4-B0S	0 ... 35bar	35bar	15bar	15bar

- Alle Druckangaben sind relativ zu einem Umgebungsdruck von 1,0 bar.
- Versorgungsspannung: 0 ... 30V DC, Klasse 2
- Zulässige Nöherung und Ruckhaftigkeit: $< \pm 1 V_{FS}$
- Abmessungen (mm) siehe Fig. 3 und 4
- Schutzart (EN 60529) IP60 (mit Stecker PT4-Lux)
- CE Konformität nach: DG-Richtlinie 90/269/EEC, 91/269/EEC, 90/268/EEC, 90/269/EEC

Sicherheitsmaßnahmen:

- Lesen Sie bitte die Betriebsanleitung gründlich. Nichtbeachtung kann zum Versagen oder zur Zerstörung des Gerätes und zu Verletzungen führen.
- Der Einsatz darf nur von Fachkräften vorgenommen werden.
- Der Nährbehälter darf nur in drucklosen Zustand geöffnet werden.
- Achten Sie darauf, daß Betriebsspannung und Fülldruck nicht überschritten werden.
- PT4 nur mit den im Datenblatt spezifizierten Medien einsetzen.
- Verwendung mit anderen Medien nur nach Freigabe von ALCO Controls.
- Elektrische Schutzmaßnahmen für elektrischen Anschluß beachten

Mounting:

- Mounting position as desired. Do not exceed max. torque of 15Nm for tightening of PT4 to pressure connection.
- After completion of installation, a test pressure must be carried out as follows:
 - According to EN 579 for systems which must comply with European pressure equipment directive 97/23/EC
 - To maximum working pressure of system for other applications

Wiring (Fig. 1 and 2, top view):

For proper wiring see cable assembly (PT4-Lux). Allow enough space on top of pressure transmitter to mount plug and tension screw. The plug can be removed on pressure transmitter only in one position. Pin 4 is wider than pins 1, 2 and 3. Pull plug screw upward, align wider pin against wider slot, then push plug carefully on pins of PT4. Fasten the screw on plug. Proper tightening of plug to pressure transmitter will provide the specified protection.

Legends of Fig. 1 and 2:

- (1) Pin 1 - white wire: 4 ... 20 mA output to controller
- (2) Pin 2 do not connect
- (3) Pin 3 - brown wire: connect with controller 24V
- (4) Pin 4 is wider for connection; do not connect
- (5) Controller

Cable Colour-Code and Pin Connection

Part	Supply, 0-30Vdc	Signal, 4-20mA
PT4-B7S (Pressure transmitter)	Pin terminal 3	Pin terminal 1
PT4-Lux (Plug/Cable)	Brown wire	White wire
PT4 (Transmitter with fixed cable)	Brown wire	White wire

- Note 1: In case electrical connection cable is extended beyond 4 m, system signal noise and EMC must be verified by installer for proper operation.
- Note 2: Signal line should not be installed parallel with power lines to avoid electrical interference.

- Elektrische Schutzmaßnahmen können die Funktion des Systems beeinträchtigen. Aufgegriffene Abschirmung aller Systemkomponenten prüfen.

Einsatz:

- Einbauhöhe beliebig. Max. Drehmoment am Druckanschluß 15 Nm.
- Nach dem Einbau ist die Druckschraube durchzudrehen:
 - Gemäß EN 579 für Geräte die der Europäischen Druckgeräterichtlinie 97/23/EC entsprechen.
 - Mit dem maximalen Arbeitssdruck des Systems für alle anderen Anwendungen.

Anschluß (Fig. 1 und 2, Ansicht von oben):

Vorgeworfene konfektionisierte Kabel PT4-Lux verwenden. Platzbedarf für die Montage des Steckers und des Verschlussverschlusses berücksichtigen. Der Stecker kann nur in einer Richtung aufgesetzt werden. Zur Entfernung ist Pin 4 etwas breiter als die anderen Pins. Schraube etwas zurückziehen, den breiteren Kasten des PT4 mit dem breiteren Schlitz des Steckers verschieben, dann Stecker vorsichtig auf die Kontakte des PT4 schieben. Befestigungsschraube anziehen. Die spezifizierte Schutzart wird nur mit vorgeworfener Schraube erreicht.

Bezeichnungen in Fig. 1 und 2:

- (1) Pin 1 - weiß: 4 ... 20 mA Ausgang zum Controller
- (2) Pin 2 nicht anschließen
- (3) Pin 3 - braun: Anschluß vom Controller 24V
- (4) Pin 4 ist breiter zur Ausrichtung; nicht anschließen
- (5) Controller

Adressierung und Kontakte

Type	Versorgung, 0-30Vdc	Signal, 4-20mA
PT4-B7S (Drucktransmitter)	Kontakt Nr. 3	Kontakt Nr. 1
PT4-Lux (Kab. Kabel)	Braun	Weiß
PT4 (Transmitter mit festem Kabel)	Braun	Weiß

Hinweis 1: Bei mehr als 4 m Leitungslänge zwischen PT4 und Controller, ist die Signal- und Strom- und EMC zu überprüfen. Gegebenenfalls sind zusätzliche Schutzmaßnahmen erforderlich.

Hinweis 2: Zur Vermeidung elektrischer Störungen (Nebenstrahlung) sollten die Signalleitungen niemals parallel zu Starkkabeln geführt werden.

Polar Pt4 Manual

**United States. Congress. House.
Committee on Appropriations.
Subcommittee on Military
Construction Appropriations**

Polar Pt4 Manual:

Clinical Endodontics; a Manual of Scientific Endodontics Ralph Frederick Sommer,1923 Aircraft Noise Prediction Program Theoretical Manual: Rotorcraft System Noise Prediction System (ROTONET), Part 4 ,1995 **Historical and Current Uses of the Northern Sea Route:] pt. 4. the administration of the northern sea route (1917-1991)** Terence E. Armstrong,1997 *Justification of the budget estimates, Air Force ... pt. 4. Fiscal year 1986 defense budget overview* United States. Congress. House. Committee on Appropriations. Subcommittee on Military Construction Appropriations,1985

Servomechanisms: Bulletin of Automatic and Manual Control Abstracts ,1968 *Technical Report* Cold Regions Research and Engineering Laboratory (U.S.),1951 *Dictionary Catalog of the Department Library* United States. Department of the Interior. Library,1969 **Meteorological Abstracts and Bibliography** ,1958 Includes supplements

The English Catalogue of Books [annual] Sampson Low,1923 Vols for 1898 1968 include a directory of publishers

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