

# PALMER

INSTRUMENTS, INC.

## NEW! Palmer Pelican Case Portable Chart Recorder for Tough Outdoor Environments



**Chart stays dry regardless of the weather!**

**IP67  
COMPLIANT**

Solid Door

**NEW! Palmer Pelican® Case Recorder** - our top quality 8" chart recorder now comes housed in a rugged Pelican case. Double-throw latches and water-tight O-ring seal assures IP67 protection even in harsh environments. Lightweight and easy to carry, the new Palmer Pelican Case Recorder offers the convenience and protection you need in a recorder.

Palmer Chart Recorders come complete with either PC-11 (battery operated) chart drive as standard, or optional spring wound. Temperature and Pressure can be combined inside the same recorder with up to three (3) systems. Palmer Recorders are made in the USA!

### Case Features

- Watertight, Crushproof, and Dust proof.
- Plexiglass Window (Std) or optional Solid Door.
- Double Throw Latches and Watertight O-ring Seals.
- Open cell core with solid wall design - strong and light weight.
- Automatic Pressure Equalization Valve releases built-up pressure and prevents moisture intrusion.
- Comfortable rubber over-molded handle.
- Stainless Steel padlock protectors provide extra strength when locking against tamper resistance.
- Heavy Duty Deflector Ribs to protect against shock and impact.
- NO SLIP rubberized adjustable feet, keep recorder balanced.
- Handy storage for extra pens and batteries.

### Recorder Features

- All internal components are corrosion resistant.
- Pen assembly is designed to transmit the movement of the sensors into a smooth, gliding arc across the chart. This prevents burrowing, resulting in longer pen life and better accuracy and readability.
- Micro adjustment feature simplifies calibration.
- Wire linkage.

### Recorder Specifications

**Pressure Ranges:** inH<sub>2</sub>O Ranges from 0 to 100, Hg Ranges from 0 to 50, kPa Ranges from 0 to 5,000, oz/in<sup>2</sup> Ranges from 0 to 50, PSI Ranges from 0 to 30,000.

**Accuracy:** ± 1/2 chart graduation.

**Pressure Elements:** High pressure helical wound bourdon coil for ranges over 30 PSIG, Low pressure diaphragm for ranges under 30 PSIG.

**Temperature Ranges:** from 0°F to 1000°F, and 0° to 600°C.

**Accuracy:** ± 1 chart graduation.

**Temperature Elements:** Mercury filled systems, the most accurate in the world, conform to ASME, and 5A and 5B, and offer rapid response to temperature changes.

**Pens:** Fine point, felt tip pens in Red, Green and Blue. Other colors available.

**Chart Drives:** PC-11 Battery Operated Chart Drive (Std) - 11 speeds allows selectable recording intervals from 60 min., 96 min., 12 hr., 1 day, 2 day, 7 day, 8 day, 14 day, 16 day, 31 day or 32 day recording intervals. Hermetically sealed, Intrinsically safe. Spring Wound: 24 hours and 7 days, or optional 15 minute and 1 hour.

**Chart:** 1 Box of Charts included.

**Case Dimensions (Exterior, without Handle and Feet):** 18.5" x 14.06" x 6.93" (47 x 35.7 x 17.6 cm)

**Case Weight (Empty):** 6.39 lbs (2.9 kg)



**PALMER Wahl**

INSTRUMENTATION GROUP  
Continued Innovation Since 1836

ISO 9001:2008 CERTIFIED

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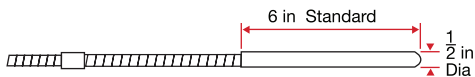
PW1181  
October 2015

# NEW! Palmer Pelican Case Portable Chart Recorder

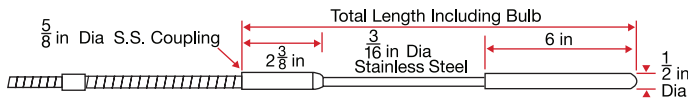
## Temperature Elements

Palmer's temperature elements must pass stringent quality control. All mercury filled systems conform to ASME and other designations such as 5A or 5B. Each system is pressurized after filling so it will have overrange capabilities above and below its specified range. Rapid response to changes in temperature make it extremely accurate and reliable. The system is completely welded to prevent deterioration. Points most susceptible to physical damage are reinforced with added flexible armor.

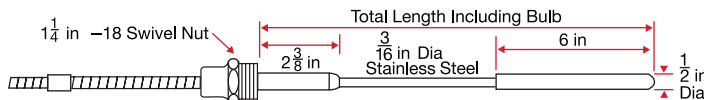
- Carefully heat treated coil provides superior spring action
- Durable, low maintenance design: thermal system and other parts easily replaced by field technician
- 300 Series stainless steel bulb, interconnection capillary, and armor available on certain designs
- Standard case compensated system for uncompensated capillary lengths not exceeding 25'.
- Standard ranges: from 0°F to 1000°F, and 0° to 600°C.



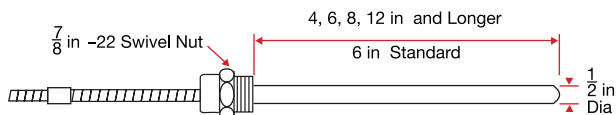
**Bulb 45-5**  
Plain bulb of stainless steel



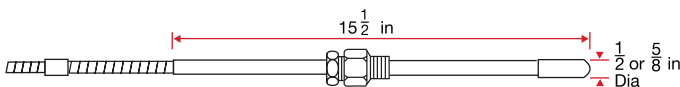
**Bulb 45-11**  
Bendable stiff armor between plain bulb and flexible armor



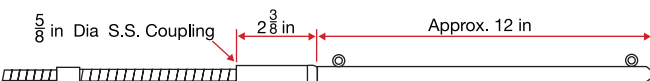
**Bulb 45-12**  
Bendable stiff armor between plain bulb and swivel nut



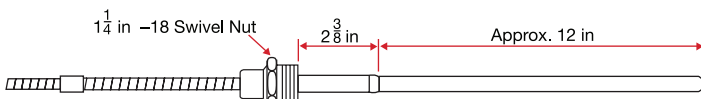
**Bulb 45-13**  
Bulb for well or union connection



**Bulb 45-14 standard**  
Bulb construction permits instrument to be used in wells of varied lengths

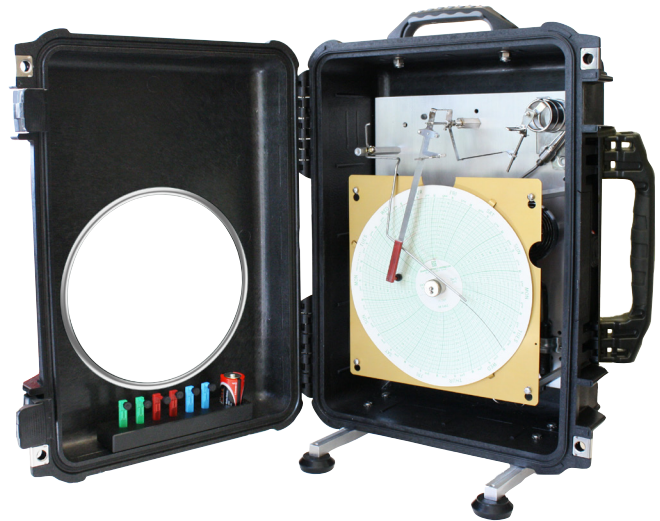


**Bulb 45-29**  
Plain air temperature bulb with rings for suspending in air stream



**Bulb 45-30**  
Air temperature bulb for union connection

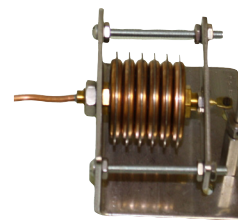
Note: Air type bulbs have standard outside diameter of 5/16" and 3/8".



## Pressure Elements

Each Palmer pressure element is individually designed and calibrated for one service pressure range to ensure better than specified accuracy. The all-welded system prevents deterioration.

- 316 S.S. helical type coil with S.S. fittings and tubing, all welded construction offers over-range protection for ranges over 30 PSIG. Ranges up to 10,000 PSI have a 1/4" NPT female connection. Ranges above 10,000 PSI have a 9/16"-18 UNF Female Autoclave Engineers Fitting with a 60 Degree conical seat. (Optional on 10,000 PSI).
- Beryllium copper diaphragm silver brazed to copper tubing and brass fittings for ranges under 30 PSIG (with 1/4" NPT female connection).
- Angular deflection of the pen arm of 22-1/2 degrees for 8" and 36 degrees for 12".
- Standard ranges: inH<sub>2</sub>O Ranges from 0 to 100, Hg Ranges from 0 to 50, kPa Ranges from 0 to 5,000, oz/in<sup>2</sup> Ranges from 0 to 50, PSI Ranges from 0 to 30,000.



Low pressure diaphragm for ranges under 30 PSIG



High pressure helical wound bourdon coil for ranges over 30 PSIG

**Palmer recorders are hand-crafted in the USA to last longer than any other product on the market!**

