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

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!

### Recorder Specifications

**Pressure Ranges:** inH2O Ranges from 0 to 100, Hg Ranges from 0 to 50, kPa. Ranges from 0 to 5,000, oz/in² 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)
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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 100°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

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: inH2O Ranges from 0 to 100, Hg Ranges from 0 to 50, kPa  Ranges from 0 to 5,000, oz/in2 Ranges from 0 to 50, PSI Ranges from 0 to 30,000.

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