



▶ Chart drives

820

- Freezer tested - 40° F
- UL Approved
- CUL Approved



This standard chart drive offers accuracy and reliability for precision measurements. The quartz movement concept provides robustness, and it was designed to operate into a temperature range of -40° F up to +180° F. The universal mounting plate makes it easy to install into all commonly use recorders.

▶ Technical data

| Standard feature battery chart drives |                     |              |           |
|---------------------------------------|---------------------|--------------|-----------|
| Part N°                               | Mounting plate type | Output shaft | Approvals |
| 820R001                               | A                   | ¼" Dia. CCW  | UL        |
| 820R005                               | A                   | ¼ "Dia. CW   | UL        |
| 820R006                               | B                   | ¼ "Dia. CCW  | UL        |
| 820R007                               | C                   | Threaded CCW | UL        |
| 820R011                               | A                   | ¼ "Dia. CCW  | CUL       |

| Special feature battery chart drives |                     |              |   |           |
|--------------------------------------|---------------------|--------------|---|-----------|
| Part N°                              | Mounting plate type | Output shaft | Special feature   | Approvals |
| 820R018                              | A                   | ¼ "Dia. CCW  | 96 days speed optimal for survey recordings   | UL        |
| 820R025                              | A                   | ¼ "Dia. CCW  | High torque 72 IN-OZ  | UL        |
| 820R029                              | A                   | ¼ "Dia. CCW  | Faster speeds 30 min - 1 hr - 2 hr - 4 hr - 6 hr - 8 hr - 12 hr - 1 d - 2 d - 3 d - 4 d - 7 d | UL        |

## ► Characteristics

| Advantages                  |  |  |  |  |
|-----------------------------|--|--|--|--|
| Rotating speeds             | Test: 60 min    96 min<br>Standard: 12 hr - 1 d - 2 d - 7 d - 8 d - 14 d - 16 d - 31 d - 32 d                              |  |  |  |
| Accuracy                    | Quartz controlled  |  |  |  |
| ON OFF                      | On selector  |  |  |  |
| Function indicator          | Pulsating LED indicates functioning  |  |  |  |
| Rotation                    | Standard: Counter clockwise (CCW)<br>Clockwise (CW) - <i>please specify</i>  |  |  |  |
| Shaft                       | Standard: ¼ diameter<br>Threaded Foxboro - <i>please specify</i><br>No axial output shaft side play<br>No angular backlash |  |  |  |
| Torque                      | 25 IN-OZ at all speeds   |  |  |  |
| Operating temperature range | -40° F to 160° F   |  |  |  |
| Corrosion protection        | Sealed with gasket   |  |  |  |
| Power supply                | 1.5 V Alkaline "C" Size Battery  |  |  |  |
| Battery life                | SPEED<br>60 minutes<br>24 hours<br>7-31 days   | AMB. TEMP.<br>2 weeks<br>6 months<br>24 months | 32° F<br>1 week<br>4 months<br>16 months | -5° F<br>1 week<br>3 months<br>12 months |
| Mounting                    | No additional standoffs required   |  |  |  |
| Approvals                   | UL Listed: class 1 Groups C & D<br>CUL Listed: class 1 Groups C & D<br>Intrinsically safe chart drive                      |  |  |  |
| Patent                      | US patent 4.492.905  |  |  |  |
| Availability                | SONCEBOZ CORPORATION - Ann Arbor, MI<br>Distributors / Service Companies<br>Throughout the US and Canada                   |  |  |  |

Special requirements upon customer specifications. Right to change reserved.

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## ▶ Accurate / Reliable

Engineered and manufactured by SONCEBOZ, the timing of the CDS 820 is based on the inherent precision of the quartz movement concept. Scrupulous attention to detail resulted in a unit with no axial output shaft side play or angular backlash, which ensures an exact pen stroke.

The high quality of the CDS 820 makes it the most trouble free of any available chart drive. A 1.5 V alkaline "C" battery can be used to power the chart drive. The battery compartment is separated from the drive mechanism. A sturdy housing made of durable material and sealed by an acid resistant O-ring provides a hermetic enclosure. The CDS 820 is freezer tested to a temperature of -40° F.

## ▶ Versatile / Convenient

The CDS 820 incorporates 11 **switch selectable speeds** which make it usable for different applications. The **universal mounting plate** makes the CDS 820 fit in all major brands of recorders. No additional standoffs are needed. Retrofit/conversion can be performed easily in a shop or in the field. A ¼ diameter output shaft with flat and the threaded Foxboro shaft are available from stock. **Other shafts are available** upon request.

The field technicians requested the important new features of the CDS 820. A rugged rotating speed selector for **11 speeds**. Fast test speeds, 60 min. and 96 min. revolution. All documentation speeds to as slow as 32 days/revolution. An **"off" position** saves battery life. A pulsating red status light indicates that the unit is working. Hence a time saver, eliminating double checking of chart movement. This is particularly valuable in applications requiring slow rotational speeds. A **body pilot** is locating the CDS 820 on the mounting plate. Removing 3 screws permits exchange of chart drive. **No recalibration** is necessary

## ▶ Chart hubs are available



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