

CH700

Control and Display Unit

The CH700-XX Series Control and Display Unit (CDU), is a family of controllers in Chelton's portfolio designed to control TETRA transceivers and Direction Finder (DF) products.

The CH700-XX is capable of controlling the following products:

- One or two Chelton TETRA Transceivers e.g. 7-450-XX
- Chelton Direction Finder e.g. 935 and 938
- Another CH700-XX used as a remote head

The CDU offers a graphical touchscreen display, four rotary encorders, two physical buttons and various menus accessible via the Human Machine Interface (HMI).

The CH700-XX Series are suitable for NVIS operations as well as for installation onto both rotary and fixed wing platforms.



ELECTRICAL

| Operating Voltage | 28 V dc (nominal) (16 V to 32 V) | |
|----------------------|--|--|
| Input Current | 900 mA (maximum) at 28V input | |
| Power Input | EUROCAE ED-14E/RTCA DO-160G, Section 16, Category B | |

MECHANICAL

| Dimensions | 147 x 170.5 x 77 mm |
|-------------|---------------------|
| (L x W x H) | |
| Weight | 1.4 kg max |

ENVIRONMENTAL

| Temperature | EUROCAE ED-14E/RTCA DO-160G, Section 4, Category B1 modified | | |
|--------------------------|---|--------------------|--|
| | Operational: | -40°C to +55°C | |
| | Short Time: | +70°C | |
| | Ground Survival: | -40°C to +85°C | |
| Altitude | 25,000 ft | | |
| Temperature Variation | EUROCAE ED-14E/RTCA DO-160G, Section 5, Category B | | |
| Humidity | EUROCAE ED-14E/RTCA DO-160G, Section 6, Category A | | |
| Shock | EUROCAE ED-14E/RTCA DO-160G, Section 7, Category B | | |
| Vibration | EUROCAE ED-14E/RTCA DO-160G, Section 8 | | |
| | a) Category S, Curve M (Sinusoidal) Fixed Wing | | |
| | b) Category S, Curve B2 (Random)Fixed Wing | | |
| | c) Category R, Curve G Helicopter | (Sin-Random) | |
| Explosion Atmosphere | EUROCAE ED-14E/RTCA DO-160G, Section 9, Category E | | |
| Waterproofness | EUROCAE ED-14E/RTCA DO-160G, Section 10, Category W (Front Panel only) | | |
| Fluids Susceptibility | EUROCAE ED-14E/RTCA DO-160G, Section 11, Category F (Front Panel only) | | |
| Sand and Dust | EUROCAE ED-14E/RTC 12 Category S | A DO-160G, Section | |
| Fungus Resistance | EUROCAE ED-14E/RTCA DO-160G, Section 13, Category F | | |
| Salt Fog | EUROCAE ED-14E/RTCA DO-160G, Section 14, Category S | | |
| Magnetic Effect | EUROCAE ED-14E/RTC 15, Class Z | A DO-160G, Section | |
| NVIS Compatibility | MIL-STD-3009 NVIS Type I, Class B | | |

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