

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 encoders, 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 (L x W x H)	147 x 170.5 x 77 mm
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 (Sin-Random) Helicopter
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/RTCA DO-160G, Section 12 Category S
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/RTCA DO-160G, Section 15, Class Z
NVIS Compatibility	MIL-STD-3009 NVIS Type I, Class B