

# 715-40

# CHELTON

## DF Controllers

The 715-40 Controller Series provides the dedicated control and display interface for Chelton Antenna Systems 935 Series Tactical Direction Finders (DF).

The unit provides the controls to select the operating mode and frequency, and displays the received signal strength, relative bearing information, age, and digital data as decoded from receivers dedicated to the COSPAS/SARSAT frequency and the Marine DSC Channel.

The amber, monochromatic, electro-luminescent screen has a viewable area of approximately 160 pixels x 120 pixels (62.3 mm x 46.7 mm).

An integral filter enables its use in Night Vision Goggle (NVG) applications. Green backlighting of the selector switch legend is provided via the aircraft instrument panel

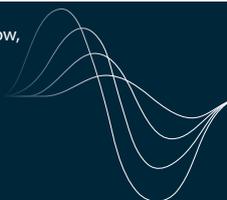
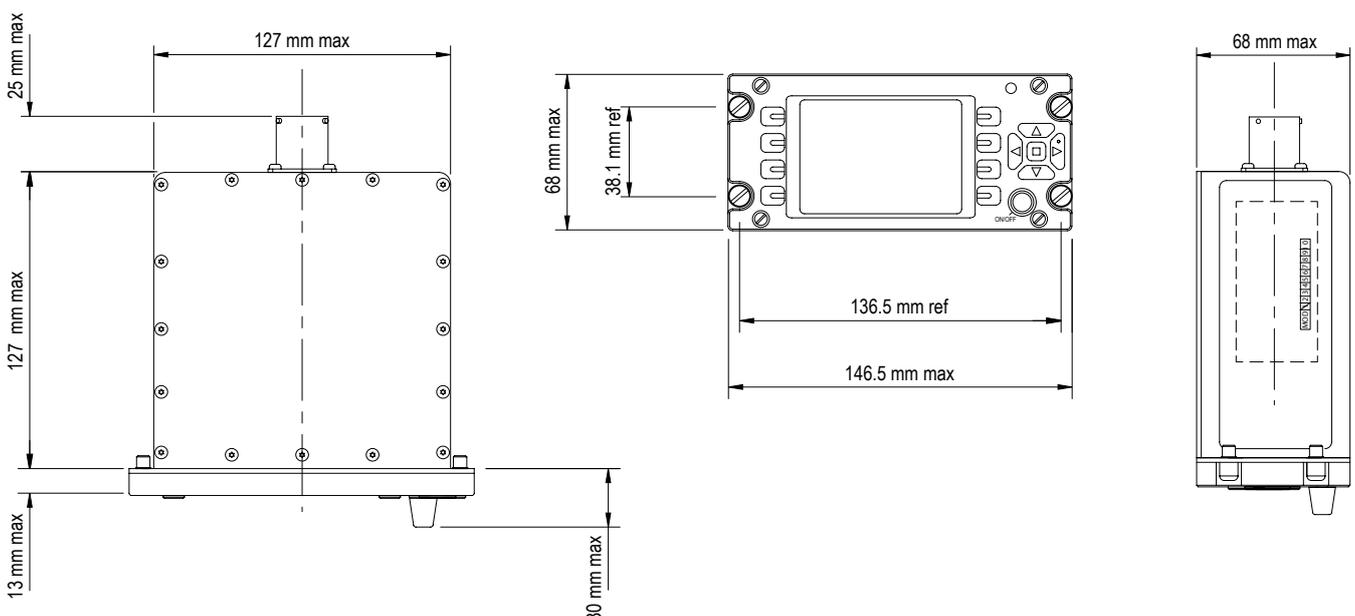


lighting bus.

The front panel offers a rotary selector switch with built-in ON/OFF push button, eight menu-allocated 'soft' keys and a navigation array of five keys.

The Dzus rail mounted controller housing is constructed from a single cavity aluminium box with a top fitted lid and a front mounted, control and display panel.

The 715-40 Controller Series includes variants designed to interface with the variants of the 935 Series DFs. Variants are described via numeric suffixes to the Type number.



## DF Controllers

## ELECTRICAL

Operating Voltage	28 V dc (nominal) (16 V to 32 V)
Input Current	500 mA (maximum) (18 V to 32 V operational)
Panel Dimming Input Voltage	0 V to 28 V dc
Panel Dimming Input Current	60 mA (maximum) (aircraft light bus, isolated)
Power Consumption	Main Supply: 7 W (maximum) Light Bus: 1.5 W (maximum)
Connectors	PVXTOW14-19U{N}

## MECHANICAL

Dimensions	68 x 146.5 x 157 mm max
Weight	0.92kg max
Display Active Area	160 pixels x 120 pixels (62.3 mm x 46.7 mm)

## ENVIRONMENTAL

Temperature	RTCA DO-160C, Section 4, Category B1 modified Operational: -20°C to +55°C Short Time: +70°C Ground Survival: -40°C to +85°C
Altitude	7,620 m
Temperature Variation	RTCA DO-160C, Section 5, Category B
Shock	RTCA DO-160C, Section 7, Category B
Vibration	RTCA DO-160C, Section 8, Categories B,M,N
Explosion Proofness	RTCA DO-160C, Section 4, Category B
Waterproofness	RTCA DO-160C, Section 10, Category W (front panel only)
Fluids Susceptibility	RTCA DO-160C, Section 11, Category X
Sand and Dust	RTCA DO-160C, Section 12, Category X
Fungus Resistance	RTCA DO-160C, Section 13, Category X
Salt Spray	RTCA DO-160C, Section 14, Category X
Magnetic Effect	RTCA DO-160C, Section 15, Zone Z Less than 0.3 m
NVIS Compatibility	MIL-STD-3009, Type II, Class B
EMC	DEF STAN 59-41 (Part 3), Issue 5 DCE01, DCE02, DCE03, DCS01, DCS02, DCS03, DCS04, DCS10, DRE01, DRE02, DRS01, DRS02

