

ADCP Towing System for Cableways

Flow Measurement | Discharge Measurement

General Description

The Cable Fox Model (CFX) is KISTERS latest towing system for manual measurement of stream flow with an ADCP or surface velocity radar device. The electric motorized trolley can be easily installed on new or existing cableways. Via a radio remote control, the user controls the towing trolley with an attached ADCP or velocity radar device across the cableway.

Thanks to the **powerful motorization** and the cable hoist provided, the Cable Fox can position the measuring instrument at fixed measuring points across the stream cross-section or use the 'moving boat' method for ADCP measurements with the variable speed control feature.

Cableways fitted with the Cable Fox do not need a permanently installed motor as the Cable Fox has an onboard DC powered motor.

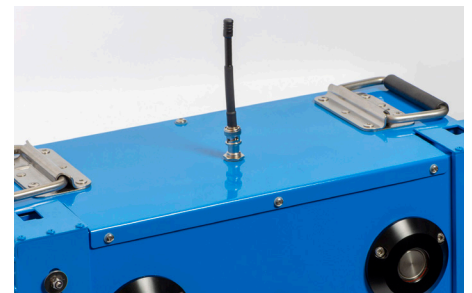
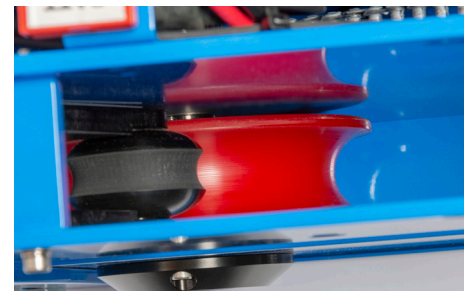
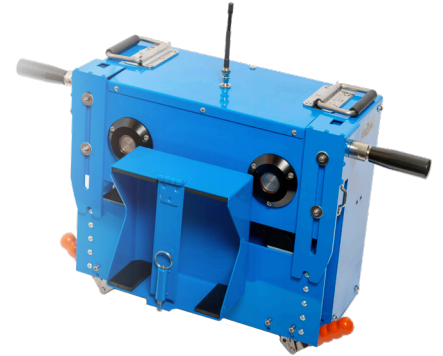
The **large range of the remote control** (up to 400 m) allows operation even at very wide stream cross-sections.

Applications

The Cable Fox is especially suitable for towing and positioning of ADCP boats or velocity radar devices for flow and discharge measurement.

Features

- Variable traversing speed
- Models for various main cable diameters
- Hoist to adjust tether line to raise and lower ADCP trimaran/board
- Encoder for distance measurement across the stream section
- Low power consumption
- Frequency band: license-free ISM band
- Auto retrieval feature brings the carriage back to the user/river bank, if the radio connection breaks (except for EU models).
- CE-compliant (all models), declaration of incorporation in accordance with the EU Machinery Directive



Technical Specifications

Motor

- Geared motor 320 W
- Speed drives carriage up to 0.6 m/s (2.00 ft/s)
- Distance measurement 0.01 m (0.01 ft) resolution
- Power requirement 12V DC 20 Ah battery internal 30A auto reset fuse

Hoist

- Max. lifting capacity 100 kg (220 lbs)
- Power requirements: uses the above Cable Fox power (12V 20 Ah), separate internal 30A auto reset fuse
- Rope: synthetic, 4 mm diameter, length up to 15 m (49 ft)

Compliance

CE

Wireless Remote Control

- Frequency:
 - EU Version: 863.05 MHz to 869.95 MHz
 - US Versions: 902.97 MHz to 926.653 MHz (Frequency Hopping)
- Operating range 400 m (1300 ft) line of sight
- Controls: raise / lower, direction (forward / reverse), speed control
- Emergency stop button
- LCD: 16 chars x 2 lines with back-lighting
- Indicators: LEDs for comms. and fault indication, battery voltage (sounder for low battery), distance
- Power source: 3 x NiMh 2.5Ah AA batteries with built in charger (3 x AA alkaline batteries in an emergency)

Versions

CFX/S2/1014-H: for main cables with a diameter 10-14 mm (0.39" to 0.55")
CFX/S2/1014-H-US: for main cables with a diameter 10-14 mm (0.39" to 0.55")
CFX/S2/1014-H-EU: for main cables with a diameter 10-14 mm (0.39" to 0.55")
CFX/S2/1632-H: for cables with diameter 16-32 mm (0.63" to 1.26")
CFX/S2/1632-H-US: for cables with diameter 16-32 mm (0.63" to 1.26")
CFX/S2/1618-H-EU: for cables with diameter 16-18 mm (0.63" to 0.71")
CFX/S2/1632-H-EU: for cable with diameter 16-32 mm (0.63" to 1.26")

Packed Dimensions

- Cable Fox: 66 x 54 x 27 cm (25.98 in x 21.26 in x 10.63 in), 35 kg (77.16 lb)
- Hoist: 55 x 48 x 27 cm (21.65 in x 18.9 in x 10.63 in), 15 kg (33.07 lb)

Scope of delivery

- Towing trolley with electric motor, remote control, hoist with rope, transport case, charger
- Not included: batteries, measuring instruments (i.e. ADCP boats, surface velocity radar)

Similar Product



Flying Fox: Mobile towing and positioning system with built-in electric motor and remote control. Similarly to the CFX, the FFX is a portable device

for positioning ADCPs across a stream section using a synthetic rope positioned across the stream section. Because of its light weight, it can be transported easily from one measuring point to the next. The user simply spans the rope across the

stream section and attaches the FFX to the rope. The FFX is controlled wirelessly using a hand control in a similar method as that used on the CFX.

[Please ask for details.](#)

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