

Fardux

Cube: Hybrid Data Logger

Our most versatile data logger to date

Fardux prides itself on providing a solution for every operation. Our Cube Hybrid Data Logger, along with its associated software system is a proven, comprehensive solution to oilfield data acquisition and management, that can be tailor made to suit your needs. Whether it's a wired or wireless system that is required, The Cube Hybrid is the solution.

OVERVIEW

Introducing Fardux's latest addition to our collection of data loggers; with a combination wired and wireless product features Cube offers the best of both solutions.

In today's choice driven market, we at Fardux know how important it is to have options available for discerning clients, out of the box and ready to go. We recognised that different markets require different solutions, according to technical challenges and commercial sensitivities, and for this reason we have developed our most versatile data logger to date.

Fardux have always been well known for the high-level technical products and solutions that we offer, and the Cube Hybrid is no different, combining the best of both wired reliability with wireless remote connectivity.

Our wireless gateway technology, Airwave, is now well established. Airwave subscribes to WirelessHART protocols, and the content rich information from the transducer that this delivers. The embedded firmware is browser accessible and programmed on a single board computer running Linux on an ARM processor. Power consumption and footprint are small, affording economies of space saving and power requirement reduction.

The wired side of the Cube is facilitated by HART protocol inputs, via a single safety barrier which is able to accommodate up to eight channels of auto-detected inputs - either pressure, temperature, differential pressure or flow. Output is via MODBUS to the host PC.



The Cube software is a feature controlled application, allowing our clients further choices when it comes to selecting functionality. The cube application software has been specifically designed to compute both wireless and wired inputs via either TCP/ IP Ethernet or MODBUS, riding on RS485 simultaneously without restriction on input channel control.

The time tried and tested Fardux software functionality, as well as look and feel are very much in evidence with the Cube Hybrid. At the same time, new and exciting interfaces have been employed to deliver alternate innovative solutions to data logging.

TECHNICAL DATA

OPERATING CONDITIONS

Supply Voltage110 to 240 VACPeak Current60 mA (AC Supply)Transmit Current60 mA (DC)Receive Current21 mA (Max 27 mA) (DC)All electrical parameters specified at STC: 25°C cell temperature; 1000 W/m² irradiance; AM 1.5

WIRELESS SYSTEM CONTROL AND MANAGEMENT TECHNICAL SPECIFICATION

Processor power LP DDR Memory On board Flash memory Local Storage Local Area Network Real time Clock Operating System Output Type

600MHz (ARM Cortex A8) 256 MB 512 MB 4 GB (SD Card) 10/100 bit ethernet 3V Linux Ubuntu RJ45 Connection

WIRED SYSTEM CONTROL AND MANAGEMENT TECHNICAL SPECIFICATION

Inputs Loop Power Isolation Type Baud Rate Protocol Comms Output Type 8 HART devices 4 mA per channel Galvanic IS 9600 MODBUS USB

TRANSCEIVER RADIO CHARACTERISTICS

Operating frequency Number of channels Channel Separation Occupied Channel Bandwidth Frequency Accuracy Modulation Raw Data Rate Output Power 2.4 to 2.4750 GHz 15 5 MHz 2.65 MHz -40 to +40 ppm (Determined by the 24MHz Crystal) O-QPSK 250 Kbps 9 to 12 dBm (Conducted at Antenna Port)

ANTENNA SPECIFICATION

Operating frequency Impedance Gain Pattern Connector 2.4 to 2.4835 GHz 50 Ohm +2 dBi Omni-directional SMA Plug

MAX RATINGS/ENVIRONMENTAL/MECHANICAL

Operating Temperature Relative Humidity Enclosure External Case Dimensions external (L x W x D) Weight -40 to 85 Deg C 10 to 90 %RH (Non Condensing) 2U 42HP rack mount unit Honeycomb Aluminium Hardcase 40 x 31 x 14 cm 7.08 Kg



Fardux

WHY FARDUX?

We have always believed that the supply of our oil and gas data acquisition products and solutions is just the beginning of our relationship with our customers.

We endeavour to provide support from the moment the decision is made to purchase any product, and then throughout the product's lifecycle. We always work hard to ensure our customers are provided with the best solutions, support and advice.



All the data, when and where you want it

HEAD OFFICE

Crossways Business Centre, Stalham Road, Hoveton, Norwich, UK, NR12 8DJ Tel: +44 (0)1603 777980 Email: sales@fardux.co.uk Web: www.fardux.co.uk

UAE OFFICE

Office E-7 (DAFZA), PO Box 293815, Dubai, UAE Tel: +971 (4) 2555003 Email: sales@fardux.ae Web: www.fardux.ae