



REAM.HMI

Real Time Electronic
Acquisition & Monitoring
& Human Machine
Interface



+44-1483-750-600

info@Medcotas.com

Medcotas.com

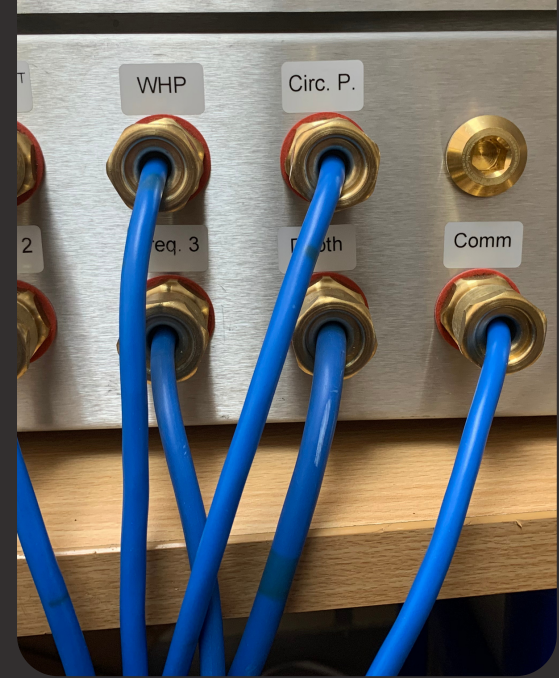
Medco House,
Monument Way East,
Woking, Surrey GU21 5LY
United Kingdom



At MEDCO, we strive to ensure customer satisfaction by maintaining the quality of our work. We are committed to providing excellent support to address any issues you may encounter.



CONTACT DETAILS



Medco Systems

The MEDCO REAM HMI system is a state-of-the-art data acquisition system that is designed to read data from electronic sensors and display it on a user-friendly TFT touch screen. The system is both an input and an output device, making it easy for users to interact with the data in real-time.

THE REAM HMI SYSTEM

comes in several designs to suit individual needs, including portable Flight Case, Stainless Steel Enclosure, and an optional Ex Certified system. It consists of two main parts: the REAM board and the HMI. The REAM board is a microprocessor-based data acquisition board that collects data from electronic sensors, digitizes the readings, and supplies the appropriate power to the sensors.

HMI communicates with the REAM board to retrieve, display, and store the data. It can communicate with other devices, such as Medco's Tubing Ovality Monitor (TOM), NuFlo MC-III Flow Analyzer, and control devices like Medco's Emergency Warning & Stop Module (EWSM).

THE REAM BOARD

has analogue, counters (frequency), and quadrature channels. The analogue channels accept signals from sensors with 0-5 vdc, 0-10 vdc, or 4-20 mA output. The frequency channels accept pulse signals produced by proximity switches, magnetic pickups, or quadrature signals. The quadrature signals are up/down counters used for measurements such as depth.

THE SYSTEM RECORDS

the data on a solid-state SD memory card and allows for remote monitoring of the data. The data can be viewed remotely on a Local Area Network (LAN) or even a Wide Area Network (WAN), provided that proper Internet connections are available.

The HMI

has many other features that can be tailored to meet the specific needs of clients. Overall, the MEDCO REAM HMI system is a reliable and advanced data acquisition system that is user-friendly and highly versatile.





Portable Configuration (FLIGHT CASE II)



Fixed Configuration (Stainless Steel enclosure)



OPTIONAL Ex Certified



Specifications

Power requirement: 10-36 vdc, max. of 36 Watts. Supplied with AC/DC converter 95 to 260 VAC.

Operating temperature: -20 to 70 deg C (except HMI).

Channels

Available Parameters: Depth, Tubing Speed, Weight, Circulation Pressure, Wellhead Pressure, Casing Pressure, Flow Rate, N2 Rate, Fluid Total, N2 Total.

Analogue In channels: Standard 8 (16bit) 4-20 mA/0-10v. Expandable to any multiples of 8.

Frequency In channels: Standard 6 (4 of which could be Quadrature). Expandable to any multiples of 6.

Analogue Output: Optional. Any number of Analogue (16 bit/4-20mA) via added loop splitters.

Digital Output: Optional. Binary (on/off) relay.

HMI: 9" colour touch screen Human Machine Interface. Temperature rating 0 to 50 deg C (also available in 7" and 10" HMI)

Dimensions: 430x290x155mm

Weight: 8 Kgs

Specifications

Power requirement: 10-36 vdc, max. of 36 Watts. Supplied with AC/DC converter 95 to 260 VAC.

Operating temperature: -20 to 70 deg C (except HMI).

Channels

Available Parameters: Depth, Tubing Speed, Weight, Circulation Pressure, Wellhead Pressure, Casing Pressure, Flow Rate, N2 Rate, Fluid Total, N2 Total.

Analogue In channels: Standard 8 (16bit) 4-20 mA/0-10v. Expandable to any multiples of 8.

Frequency In channels: Standard 6 (4 of which could be Quadrature). Expandable to any multiples of 6.

Analogue Output: Optional. Any number of Analogue (16 bit/4-20mA) via added loop splitters.

Digital Output: Optional. Binary (on/off) relay.

HMI: 9" colour touch screen Human Machine Interface. Temperature rating 0 to 50 deg C (also available in 7" and 10" HMI)

Dimensions: 430x290x155mm

Weight: 10 Kgs

Specifications

Power requirement: 12 vdc, max. of 20 Watts.

Operating temperature: -10 to 55oC (except HMI).

Ex Certification: II 3 G Ex nA d ia IIB T4 Gc Ta -10oC to +55oC

Certificate number: ITS14ATEX48051X

Channels

Available Parameters: Depth, Tubing Speed, Weight, Circulation Pressure, Wellhead Pressure, Casing Pressure, Flow Rate, N2 Rate, Fluid Total, N2 Total.

Analogue In channels: Standard 8 (16bit) 4-20 mA/0-10v.

Frequency In channels: Standard 6 (4 of which could be Quadrature).

Analogue Output: Optional. Any number of Analogue (16 bit/4-20mA) via added loop splitters.

Digital Output: Optional. Binary (on/off) relay.

HMI: Recommended 9" colour touch screen Human Machine Interface. Temperature rating 0 to 50 deg C (also available in 7", 9", 10", 12", 15 and in separate enclosure)

Dimensions: 450mm (H) x 300mm (W) x 250mm (D) 1.2mm gauge brushed 316 stainless steel 2mm zintec mounting plate

Weight - Enclosure 18Kgs

MEDCO		CE
Courtenay House, Monument Way East Woking GU21 5LY, United Kingdom		
Type: REAM HMI		
Serial no: 1031		
Part no: N0M00G18IS001012T10400CG		
II 3 G Ex nA d ia IIB T4 Gc		
-20° C ≤ Tamb ≤ 55° C		
Voltage: 12 and 24 VDC		
Maximum Power: 20W		
Cable size: 2.5 mm ²		
CERT No: ITS14ATEX48051X		
YEAR OF MANUFACTURE: 2014		
DO NOT OPEN WHEN ENERGISED		