
Monad Electronics

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Introduction



Winner of National Award for year 2009-2010 in R&D

Monad Electronics is An ISO 9001:2015 certified company, which has been involved for over 20 year in the business of designing, manufacturing and export of Electronic Industrial products, Testing equipments , sensors and related indicating and controlling devices and allied products related to Data logging & Acquisition.

Monad is specialized in providing high end and high accuracy customized Force Transducers, Multi-Axial Force Transducers and Torque Sensors. Monad is an expert in providing import substitutes of high end Load Cells, Safe Load Indicators, etc

We are supplying to leading industries and government institutions and are also exporting our products to USA, Germany, Belgium, Turkey, Australia, U.A.E., Singapore, Spain, Brazil, New Zealand, Philippines, UK, Croatia and to the African countries.

Draft Cum Three Point Hitch Dynamometer

Monad's Three-point hitch dynamometers consists of using two sub-frames connected by the load cells. Then one part of the device is attached to the tractor and the other one attached to the implement.

These devices allow implementing more measuring transducers and can be used in higher power tractors than a single frame dynamometer. The main advantage of these dynamometers is that they not require any modification on the three-point mechanism, and only attaching between the tractor and the implement is required.

This allows realizing different test in different tractors with the same device.

Draft Cum Three Point Hitch Dynamometer



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The Monad Three-point hitch dynamometer has been developed to measure all the loads between the tractor and the implement.

With the information acquired it is possible to study the performance of the implement and the tractor that would be interesting for agricultural machinery manufacturers.

Draft Cum Three Point Hitch Dynamometer



Draft Cum Three Point Hitch Dynamometer

Specification Digitizer-Controller :

Display	Two Line alpha Numeric LCD display with backlight
Keypad	Soft touch key pad
Relay O/P	Two Programmable set point with relay O/P
Communication port	RS 232 o/p to transfer real time data
Calibration	Software calibration
Peak reading	Peak reading display option, selectable by switch
Analog O/P	0-10 V corresponding to Force
Power supply	Inbuilt Battery Li-Ion & 220 V AC
Microcontroller	2 X 8 bit Industrial grade microcontroller
Dimension of enclosure	96X96X170 or 144X144X95
Communication port	RS 232 o/p to transfer real time data



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Specifications Load cell :-

Rated Output	1/2mv/V
Safe Over Load	150% of RO
Safe Side Load	50% of RO
Zero Balance	±0.01% of RO
Excitation	10 V DC maximum
Non Linearity	±0.01% of RO
Non Repeatability	±0.01% of RO
Hysteresis	±0.005% of RO
Temperature shift Zero	±0.001% of RO
Temperature shift Span	±0.001% of RO
Compensated Temperature	25° to 50 °C
Operating Temperature	-10° to 70 °C
Input Impedance	390 Ohm
Output Impedance	350 Ohm
Protection	IP67