



# DATA MANAGER 700

integrated data logger/programmable controller with display



## PRODUCT FEATURES

- Real-time process monitoring and control
- Well level monitoring for long-term periods
- Instantaneous and totalized flow monitoring
- Pump control with high/low setting points



**High-definition accuracy and resolution**  
**Real-time display/control/log in one device**  
**The features you requested at a price that makes sense**

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## PRODUCT FEATURES AND SPECIFICATIONS

- Rugged wall-mount
- Programmable data logger and controller
- Easy to program
- Large keypad for gloved use
- USB data download
- High 16-bit resolution ( $\pm 0.002\%$  FS)
- Real-time display
- High/low alarm/relay outputs
- User replaceable batteries
- External power
- SCADA compatible, without the cost
- 4-20mA and pulsed input channels

## HIGH DEFINITION DATA LOGGING

### A feature worth requiring, a discussion worth having

The 16 Bit Resolution inherent in Dynotek's Data Manager improves overall accuracy of measurements by providing substantially better resolution of readings regardless of the underlying accuracy of the sensor input.

Analog sensors are essentially continuous in output, with infinite resolution possible. In converting the data from analog to digital, much of the stated accuracy can be lost

With a conventional 12 bit logger, the finest resolution reading that can be taken is 0.02% of full scale. With 6 bit resolution data, readings are better than 0.002% of full scale.

This means that with a 1000 psi pressure transducer, the most accurately that actual water depths can be read with 12 bit is +/- 0.5 ft. With 16 bit resolution, changes in depth of as little as 0.04 ft can be measured. This level of accuracy can be critical in many monitoring and testing operations.

<b>Warranty</b>	1 year
<b>Device Material</b>	Injected plastic
<b>Weight</b>	4.5 lbs.
<b>Dimensions</b>	6.0" (w) X 7.0 (h) X 3.75" (t)
<b>Temperature Range (Op)</b>	-25C to +70C (-13F to 158F)
<b>Power</b>	
External drop to 12-18 VDC	Y
Int. Power - Lithium	Y
Loop Power - Alkaline	Y
User Replaceable	Y
<b>Memory Capacity</b>	
Type	Non-volatile
Data Point Capacity	1 channel up to 375,340 readings 2 channel up to 275,249 readings 3 channel up to 217,802 readings
<b>Data Logging</b>	
Channels	1 to 3 analog, 0-2 pulse (3 total)
Resolution	16-bit resolution
Accuracy	$\pm 0.002\%$ FS
Fastest Samp Rate	3 channels - once/sec
Slowest Samp Rate	once every 98 hours
<b>Test Types</b>	
Linear	Y
<b>Probe Input Electrical</b>	
Analog	4-20 ma
Pulse Type 1	0 to 3V, 32V tolerant, with 50K pullup Min rate .016 Hz, Max 20 KHz
Pulse Type 2	300 mV AC RMS, up to 3v peak-peak Min rate 0.16 Hz, Max 20 KHz
<b>Probe Communication</b>	
Loop Source Voltage	18 VDC
SCADA	SCADA compatible (1 channel)
<b>Device to Computer Com</b>	
USB	Y
<b>External Control Capability</b>	
Alarms/Relay	1
Contact Rating	0.3A @ 125VAC, 1A @ 30 VDC
<b>User Interfaces</b>	
Keypad	Y
Display	1.92" (w) X 0.8" (h)
External Software	Y
<b>Software</b>	
XP/2000	Y
Vista	Y
Download while logging	Y
Output to CSV	Y
Real-time view	Y
Retain original file	Y

Specifications subject to revision r20071

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