



DW7100



DW8100



### Machine Monitoring and Trending with Alarm Outputs

The DATAWATCH™ machine monitor protects your valuable plant assets from degradation and catastrophic failure. It features high quality signal conditioning with a sampling rate of 125 msec. regardless of the number of channels. It also features a high resolution color touch screen interface, event logging and onboard historical review capability. Data can be manually or automatically logged to removable storage media. Ethernet communication is standard. Remote data archiving and integration into plant-wide data networks are achieved via FTP (file transfer protocol) and Modbus/TCP.

DATAWATCH is a registered trademark of Metrix Instrument Co.

### Feature/Benefits

- Vibration trending
- Color displays
- Touch screen
- Event logging
- Data storage
- 6 to 48 inputs including TC & RTD
- User configurable graphic screen option
- Custom graphic screen available
- All points processed every 125 milliseconds
- 3 to 27 output relays w/adjustable time delays
- Removable flash memory
- Ethernet port: 10 base-T, Modbus TCP
- RS485 Modbus RTU master/slave
- Remote access full-capability software
- Security for user, engineering & admin. levels
- Front panel USB port

### Specifications

Standard Features		DATAWATCH 7100	DATAWATCH 8100
<b>Input:</b>	Number	6, 12	12, 18, 24, 30, 36, 42, 48
	Type	dc V, dc mV, dc mA (w/shunt), TCs, RTDs, Contact closure	dc V, dc mV, dc mA (w/shunt), TCs, RTDs, Contact closure
<b>Update rate:</b>	(125 ms)	8 times/second all channels	8 times/second all channels
<b>Output:</b>	Relay	3 SPDT (options up to 12 relays)	3 SPDT (options up to 27 relays)
<b>Display:</b>		5.5" (1/4 VGA) 16 bit Color LCD	12.1" (XGA) 16 bit Color LCD
<b>User Interface:</b>		Touch sensitive screen	Touch sensitive screen
<b>Graphics:</b>		Bar & trend charts, alpha-numeric display	Bar & trend charts, alpha-numeric display
<b>Panel Cutout:</b>		5.44 x 5.44 inches	11.07 x 11.07 inches
<b>Environmental:</b>		Bezel NEMA 4 (IP65)	Bezel NEMA 4 (IP65)
<b>Datalogging:</b>	Archiving interval	125 ms	125 ms
	Media	Compact Flash	Compact Flash
	Capacity	256 MB included	256 MB included
<b>Communications:</b>		Ethernet-FTP/Modbus TCP	Ethernet-FTP/Modbus TCP
<b>Optional features:</b>		RS485 Modbus RTU	RS485 Modbus RTU
<b>Relay outputs:</b>		Up to 12 total	Up to 27 total
<b>Custom Screens:</b>		Consult Factory	Consult Factory
<b>Operating / Storage Temperature:</b>		50°C (122°F) / 60°C (140°F)	50°C (122°F) / 60°C (140°F)
<b>Supply Power:</b>		60 VA, 85 VAC to 265 VAC RMS @ 47 to 63 Hz	60 VA, 85 VAC to 265 VAC RMS @ 47 to 63 Hz

**How To Select DW7100**

**A                      B                      C\*                      D**  
**DW7100 -**   -     -

- Small display
- 32 Mbyte trend memory
- Inputs 6, expandable to 12

**A**   **Number of Inputs**

0	6	= 6 channels
1	2	= 12 channels

**B**   **Number of Relays**

0	3	= 3 relays
0	6	= 6 relays
0	9	= 9 relays
1	2	= 12 relays

**C**   **Number of Shunts\* for 4-20 mA Inputs**

0	0	= None
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\* A shunt resistor is required for each 4-20 mA input.

**D**  **COMM**

0	= Ethernet
1	= Ethernet + RS232
2	= Ethernet + RS485

**How To Select DW8100**

**A                      B                      C\*                      D**  
**DW8100 -**   -     -

- Large display
- 32 Mbyte trend memory
- Inputs 12 expandable to 48

**A**   **Number of Inputs**

1	2	= 12 channels
1	8	= 18 channels
2	4	= 24 channels
3	0	= 30 channels
3	6	= 36 channels
4	2	= 42 channels
4	8	= 48 channels

**B**   **Number of Relays**

0	3	= 3 relays
0	6	= 6 relays
0	9	= 9 relays
1	2	= 12 relays
1	5	= 15 relays
1	8	= 18 relays
2	1	= 21 relays
2	4	= 24 relays
2	7	= 27 relays

**C**   **Number of Shunts\* for 4-20 mA Inputs**

0	0	= None
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\* A shunt resistor is required for each 4-20 mA input.

**D**  **COMM**

0	= Ethernet
1	= Ethernet + RS232
2	= Ethernet + RS485

**MONITORS**



P/N 99526-010  
 256 MB Compact Flash Card  
 (one card included with each  
 DW order)