Maestro Universal - Data Sheet

Basic Platform:

- Windows CE based microprocessor
- 10" 640x480 color LCD display
- Inputs:10 digital ($24V_{DC}$), 13 analog (4-20mA), 10 RTD inputs (100 ohm platinum)
- Outputs: 11 digital ($24V_{DC}$), 4 analog (4-20mA)
- Motor Current: Built-in current transmitter
  - Current Rating: $0\text{-}5A_{AC}$
  - Voltage Rating: $0\text{-}30V_{AC}$ max
- Enclosure: NEMA 4 / IP55 (outdoor watertight & dustproof)
- Input Voltage: 120 V_{AC}
- Input Voltage Range: 90-260 V_{AC}
- Rated Frequency Range 50-60Hz
- Internal Power Supply: $24V_{DC}$
- Power Consumption: 150W
- Temperature Operating Range: 32˚F – 122˚F (0˚C – 50˚C)
- Temperature Storage Limits: -10˚F - 140˚F (-23˚C - 60˚C)
- Humidity Operating Range: 92.5% Relative Humidity
- Safety Approvals: UL, CSA and CE

Software Options:

- Auto start/stop
- Constant Pressure
- Operation scheduler
- Auxilary loop controls
- Performance log
- Sequencer

Hardware Options:

- Additional IO module
- Control panel cooler
- NEMA 4X, IP66 enclosure
- Purge Z valve
- Audible/visual alarm annunciation
- On/off dry contacts

Communications:

- Remote monitoring with built-in web server
- MODBUS protocol interface (RS-485 serial port)
- PROFIBUS protocol interface
- USB interface
- Ethernet interface
- CANbus inter-module communication

Control Modes:

- 5-loop constant pressure with selectable auto load/unload enable
- 5-loop auto dual control
- Configurable monitoring and control points
- Constant mass flow
- 4-loop constant pressure control (selectable)

Unique Features:

- Set-up wizard for configuration
- Additional PC based configuration software
- Selectable home page
- Alarm and trip e-mail alerts
- Data logging performance history logs

Operator Interface:

- 10" Color display with two color usage
- Multiple languages for global destinations
- Numeric and operational direction keys
- Local/remote selection keys
- Auto/unload selection keys
- Acknowledge and reset buttons

Extended Operations and Functional Options:

- Condensate valve control
- Oil heater interlock and control
- Motor bearing / stator temp monitoring
- Additional vibration and RTD channels
- Differential oil pressure across oil filter
- Oil level switch
- Panel purge switch
- Common alarm/trip dry contacts
- Temperature compensated flow
- Surge detection and count
- Auto surge test
- Two process control functionality
- Turbine driver interface

Control Panel Monitoring Functions:

		Warning		Faulty Sensor	
Item	Readout	Alarm	Trip	Alarm	Trip
Inlet Air Temp	X	X	X	X	
System Air Press	X			X	
Oil System Press	X	X	X	X	
Oil Temp	X	X	X	X	
Stage Vibration Level	X	X	X		X
Motor Current	X				X
Power Supply Voltages	X	X			
Total Run Time	X				
Calendar/Clock	X				

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