

# Data Handler (DH) Specifications

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## Physical -

- **Dimensions:** 3 inches DIA x 2.5 inches x 3 inches
- **Package:** Circuitry hermetically sealed
- **Mounting:** Surface, DIN, Snap Track
- **Connectors:**
  - Power & Signals: Plug & Play. Wire Range: 28 - 14 AWG
  - RS-232: Male 9 pin Subminiature D

## Electrical -

- **Supply Voltage:** 9 to 26 VDC
- **Current draw:** Nominal 6 mA
- **CPU:** Industrial Hardened Microcontroller
- **Real Time Clock:** Perpetual
- **Battery:** Internal, rechargeable.
- **Inputs:** (Optional 8 input multiplexer)
  - Analog:
    - Optically Isolated AC, DC, RTD, T/C, Strain Gage
    - Optional: 2 each 4/20 mADC or 1/5VDC
    - Resolution: Greater than 12 bits
  - Contact Closure: 2 Each
  - Frequency: 0 to 500 Pulses per Second (PPS)
  - Pulse Duration:
    - Resolution: 15.6 mS
    - Span: 15.6 mS → 1 Year
    - Period: 15.6 mS → 1 Year
  - Pulse totalizer/Accumulator:
    - Minimum pulse width: 15.6 mS
    - Maximum count: 4,294,967,296
- **Outputs:**
  - Analog:
    - Current: 0/20 mADC
  - Relays: 2 Each, Normally open contacts
    - Contacts rating 28VDC @ 1 A Max. Resistive
  - Frequency: 0/1200 Pulses per Hour (PPH)
  - Pulse Duration:
    - Resolution: 635 μS
    - Range: 125 mS → 186 Days
    - Period: 125 mS → 186 Days

## Software -

- **Diagnostics:**
  - Built In Self Check
  - Watch Dog Timer
- **Memory:** 32K, non-volatile RAM
- **Configuration Interface:** Settings configured via RS-232 and PC



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## Communications -

- **RS-232C:**
  - Baud Rates:
    - Default: 1200
    - Selectable: 300 - 19200
  - Data Format:
    - Default: 8 Bits, 1 Stop, No Parity.
    - Selectable: 7 - 8 Bits, 1 - 2 Stop, Even or Odd Parity.
- **Protocols:**
  - Default: ASCII
  - Selectable:
    - Modbus
    - TCP/IP
    - Customer specified
- **Connections:**
  - Default: Computer
  - Selectable:
    - Telephone Modem
    - Radio Modem:
      - Adjustable RTS Delay
      - Default: Full-Duplex
      - Selectable: Half-Duplex
- **Addressable:** 256 different addresses

## Environmental -

- **Operating Temperature:** -30 to 80 degrees C
- **Operating Humidity:** 5 to 95%
- **Class:** Class 1, Div 1, non-incendiary, Intrinsically safe

## Performance -

- **Accuracy:** 0.1% (Calibration/Linearity/Hysterisis/Repeatability)
- **Temperature Coefficient:** 0.005 % / Deg C
- **Warranty:** 7 years, Transferable

