BMDS DAS-8010
Smart Probe Interface

BMDS
part of **AVIDITY** Science

The Features of DAS-8010

The DAS-8010 Smart Probe Interface is part of a two-piece system for getting and receiving data from BMDS Implantable Micro-Transponders. In use, it is connected and partnered to a BMDS Smart Probe; either an RSP-8004 probe for reading IMI Micro-transponders or an RSP-8025 probe for reading XPT-100, IPT- 300/IPTT-300 transponders. The DAS- 8010's dual role is to provide clean isolated power to the probe while receiving the captured transponder data back from the probe. This transponder data is then formatted and sent out its various output data ports for connection to a computer or terminal.

There are three data ports: USB Serial, USB Keyboard, and RS232 Serial with a DB9 connector. There is an LED indication for USB connection status and probe connection verification. In addition to verifying that the probe is properly connected, the DAS-8010 will automatically communicate with the probe upon power up to determine the probe serial and delimiter settings. Regardless of the serial baud rate, the unit will always buffer and transmit data via USB keyboard output at a slower HID (Human Interface Device) compatible data rate.

BMDS Transponder Compatibilty
IMI-400 with the RSP-8004
IMI-500 with the RSP-8004
IMI-1000 with the RSP-8004
XPT-100 with the RSP-8025
IPT-300 with the RSP-8025
IPTT-300 with the RSP-8025

As a two way interface, the DAS-8010 also enables serial communication directly to the probe. This allows access to all of the BMDS Smart Probe features and advances functions via BMDS application software.

The DAS-8010 uses a tri-microprocessor design allowing autonomous port control that is independent of the probe interface. Three Atmel ATxmega32C microcontrollers with updatable firmware on single board construction using all surface mount components for reliability

TECHNICAL INFORMATION

Technical Characteristics

- LED Indication of USB Connection Status
- Front Power Switch for BMDS Smart Probe
- Base for Stability and Threaded Insert for Mounting Options
- Single International Power Supply
- Isolation Circuity to Protect Performance
- Main Unit: 1.80" Wide by 4.74" High by 2.85" Depth (Including base: 3.0 W, 5.4 H, 3.2 D)
- Smart Probe Input Port using 6 pin Custom Cable
- USB Serial Port (Full Size)
- USB Keyboard Port (Full Size)
- RS-232 Serial DB9 Connection
- 12 Volt Power Supply Barrel Connection