The Ballistics Centre

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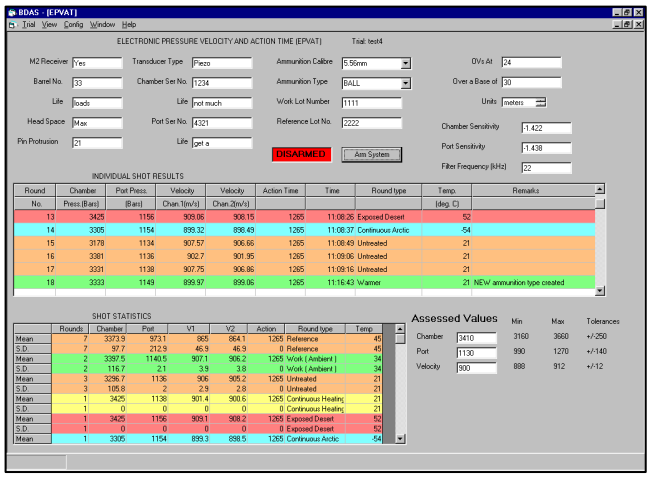
BALLISTIC DATA ACQUISITION SYSTEM (BDAS) TYPE 680

The MS Instruments PLC Ballistic Data Acquisition System is an integrated unit, which is used to gather data for complete ballistics analysis. Typically, it is used for Electronic Pressure Velocity and Action Time (EPVAT) measurements, however it can be configured in a number of different ways to act as a multi-purpose data-gathering unit. The data is then passed to a Range Processor where it is displayed using BDAS software.



The Range Processor runs Windows™ operating systems and the BDAS software is a Windows™ program. This allows simple data exchange and provides data in standard Excel™/Access file formats. Having the standard user-interface that is typical in the Windows™ operating system gives a rapid familiarity with the software and consequent reduction in training requirements.
Initial data entry is straightforward and quick and the software is self-arming, allowing largely hands-free operation during use.
All data is safely logged to disk after each round.
This unit has been developed to combine the many useful, individual properties of MSI instrumentation. The resulting sophisticated and versatile product can be utilised in the measurement of velocity and rate of fire of a projectile; port and chamber pressure within the weapon and the action time. Other timing and data logging functions can also be provided.

Two digital Charge Amplifiers are fitted to ensure that all instrument settings are set electronically and recorded with the data for optimum data integrity.

SPECIFICATION

Standard Specification		**Environment:**	
A/D card	2 channel 10MHz 12-bit.	Operating temperature	0°C to + 60°C
Power Supply	85-264v a.c.	Humidity	95% non-condensing
Inputs:		**Dimensions:**	
6 x 19 pin connector	Detector type 858	Size	650mm x 500mm x 150mm
6 x BNC (TTL)	Detector type (make or break screens)	Weight	15Kg
2 x BNC (TTL)	Action Time start (firing pin)		
2 x BNC (TTL)	Action Time stop (firing pin)		
2 x BNC (AUX)	Analogue inputs (Strain gauge)		
2 x BNC	Piezo transducers		
Filters:			
Butterworth (software)	0-500KHz		