

DETECTOR OF DISCONTINUITIES / MICRO-CUTS / MICRO-EVENTS ELECTRICAL AND OPTICAL CIRCUITS AND CONTACTS MONITORING

AdvEOCount Modules

DESCRIPTION

The AdvEOCount range of equipment is designed to qualify electronic/optical cords, connectors and circuits.

This equipment is equipped with modules. They detect untimely discontinuities/continuities on circuits or contacts during mechanical tests (for example : shocks, vibrations, shaking, rotation...).

This system is built, assembled and tested by our teams in our workshops and laboratories according to your specifications.



Your components

Electrical connectors (simple, rotary joints...)
Switches, electromechanical relays, solid-state relays...
Resistive contacts and loads
Optical connectors

Applications

Component evaluation and qualification
R&D and reliability for electrical and optical components
Mechanical tests laboratories

MAIN CHARACTERISTICS

Specifications

- Monitoring of resistive contacts or circuits
- Time selection, manual or programmable range
- Autonomous detector and counter on each track
- Electrical and optical circuits opening or closing
- Display of number of events
 - Front panel counter
 - Computer remote (*display and storage*)
- Table-top package

Advantages

Quick and easy to use, programmable gauge time
Electrically isolated modules (easier management in disturbed environments)
Adaptable to multiple components and applications (Aeronautics standards, transport, land applications ...)
Modular system configuration

TYPE

ADVEOCOUNT MODULES

Modules	MCe1	MCe2	MCROhms2	MCp2	MCo1
Range (<i>manual or programmable</i>)	3	3	3	Communication module compatible with the MCe2 and MCROhms2 modules	Optical module compatible with the MCe1 and MCe2 modules Custom configuration (modes, wavelengths...)
Programmable Range (<i>from 1µs</i>)	-	1	1		
Front panel display (<i>number of events</i>)	0 à 99	0 à 99	0 à 99		
Type of contact	Closed	Open or Closed	Open or Closed		
Type of circuits	Contacts	Contacts	Resistive circuits <i>(manually adjustable threshold)</i>		
Neutralization (<i>after an event</i>)	0,5s	0,5s	0,5s		
Power levels	5V/100mA	5V/100mA	5V		
Reset button (<i>Reset of the module</i>)	Yes	Yes	Yes		
Alarm output (<i>Information about the 1st event thanks to an external recorder</i>)	Yes	-	-		
Connection of the component to be tested	BNC or SMA	BNC or SMA	BNC or SMA		
Option : ultrashort event	2ns	-	-		
Option : differential pairs	Yes	-	-		

*Other configurations, contact us...

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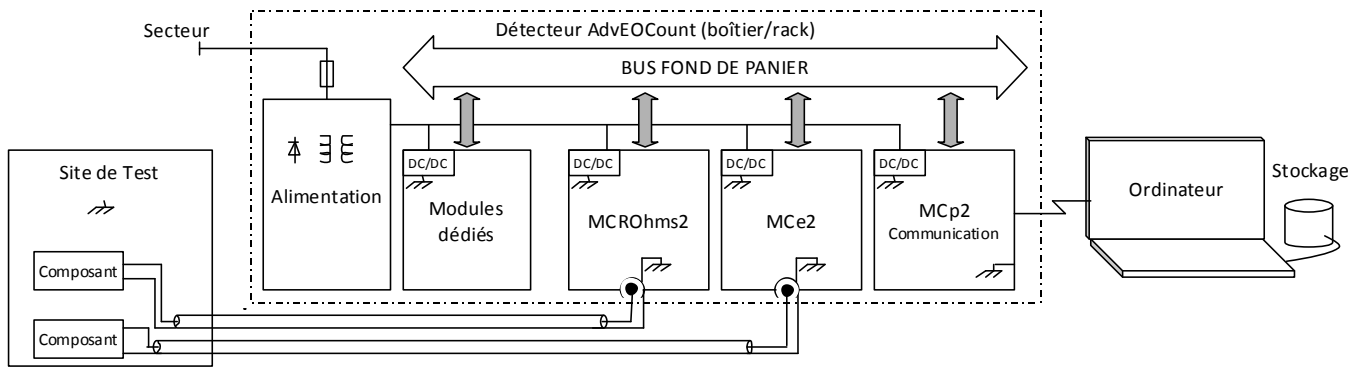


Figure 1 – Schematic diagram



MCROhms2/MCE2 electrical modules configuration
And MCP2 communication module
Rack for bay



MCE1 electrical and MCO1 optical modules configuration
Table-top box

Figure 2 – Example of detection devices configurations

Training and implementation assistance

AdvEOTec offers a training and implementation assistance for the use of its equipment.

Control

The equipment is controlled by command words from the user's computer (ASCII). A utility for the MCP2 communication module is included in the system supply. It allows to communicate with each module by sending orders.

Software

AdvEOTec provides users with fast, configurable control and acquisition software, enabling micro-event sampling/time-stamping, for example.

**Other configurations, contact us...*

