



MECASON[®]

MODULAR UNITS



Designed to monitor those machines requiring an instantaneous reaction to any evolution, the modular electronics units assure uninterrupted monitoring for each measurement point.

These modules are also the most economic solution in those cases where only one or two measurement points are needed. With its 4-20 mA analog output offers a means by which the user can adapt the process parameters according to machine behavior.

To facilitate their installation together with other industrial electric components, the modular units feature industry standard housings for DIN rail snap-on installation.

SOME APPLICATIONS

Monitoring for bearings, gearboxes, piston compressor flap valves, detection of the presence of liquid in refrigeration compressors, detection of fluid passage in pipes, confirmation of valve closure, etc. The modular units should be used there where the input scanning dead times of the CBN 30 are too long to ensure an effective monitoring.

Two modular unit versions are available RBV with relay outputs, and TBV with 4-20mA analog output :

RBV Module

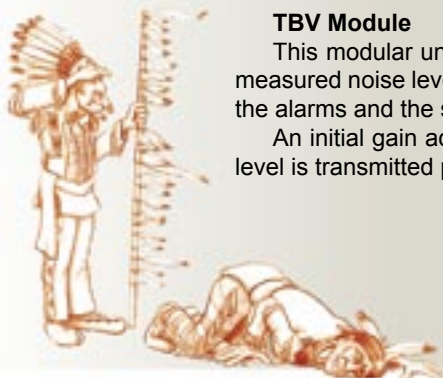
This modular units features two relays outputs. The first outputs signals a defective measurement or the passage of the first high level alarm (warning) and is wired in positive security. The second output signals the passage of the second high alarm level (emergency) and is often used to shut down automatically that machine. All alarm levels are user adjustable.

The limits are sets in relation to an initial level adjusted by the user at the beginning of monitoring, witch forms the base of the measurement and is associated with a «good» machine operation.

TBV Module

This modular unit functions as a converter/transmitter with a 4-20 mA analog output proportional to the measured noise level. This module is especially well adapted for use together with a PLC. The generation of the alarms and the storage of the measured values being managed by the PLC.

An initial gain adjustment defines the «good» machine operation noise level. Any variation of this initial level is transmitted proportionally and in real time via the 4-20mA output.



According to the demands of the application at hand, the sensors are available with protection rating IP 65 or watertight up to a depth of 50m. For applications in explosive zones, a sensor version certified EEX IIC is T5 is also available.

This certification implies the use of a Zener barrier for each sensor, which must be installed between the sensor and the electronics unit and outside of the explosive zone.

TECHNICAL SPECIFICATIONS

ABW POWER SUPPLY MODULE :

- Maximum power	8 VA
- Maximum number of modules served	8
- Plug-on screw terminal connections	2,5 mm ²
- Supply voltage : - standard	230 V 50 Hz
- upon demand	127, 48, 24 V 50 Hz
- Electrical protection	fuse 5 x 20 with varistor
- Housing polyamide 6.6 and polycarbonate, snap-on mouting for DIN rails	
- Dimensions(mm)	110x76x90 mm
- Mass	500g approx

RBV MODULES :

- Power supply	12 V DC regulated
- Alarm output delay	1s approx
- Analog test output	0 - 1000 mV via plugs banana Ø2
- Plug-on screw terminal connections	2,5 mm ²
- Operating temperature	-10 to +50°C
- Housing polyamide 6.6, snap-on mounting for DIN rails	
- Dimensions	70 x 25 x 90 mm
- Mass	100g approx
- Relay outputs: - maximum switching voltage	125 V
- maximum switching current	1 A
- maximum swtiching power	60 VA (AC), 50 W (DC)

TBV MODULES :

- Power supply	12V DC regulated
- Maximum resistance at output	4-20 mA , 400 Ohms
- Analog test output	0 - 1000 mV via plugs banana Ø2
- Plug-on screw terminal connections	2,5 mm ²
- Operating temperature	-10 à +50°C
- Housing polyamide 6.6, snap-on mounting for DIN rails	
- Dimensions	70 x 25 x 90 mm
- Masse	100g approx

SENSORS :

- Pass band (sensor and electronics)	100 à 12000 Hz
- Operating temperature	-20 à +60°C
- Protection rating	IP 65, (upon demand water tight to 50 m)
- Installation hardware	washer and screws CHC 5
- Masse excluding cable	50 g approx
- Wire connections per co-axial	0,22 mm ² , insulation plastified PVC
- Sensor shaft stainless steel	316 L, shrink tube

Distributed by :