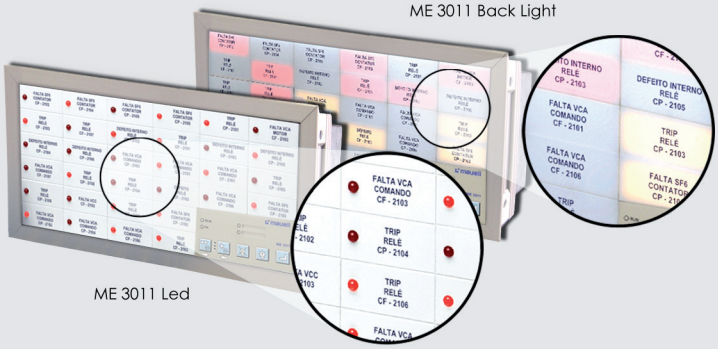
mauell

Alarm Annunciator
ME 3011b

ME3011b is a device designed for local signaling and recording of alarms, states, events and abnormalities in electrical power systems, industrial facilities and general building infrastructures, providing the information locally by its frontal display as well as remotely through communication networks and software tools.

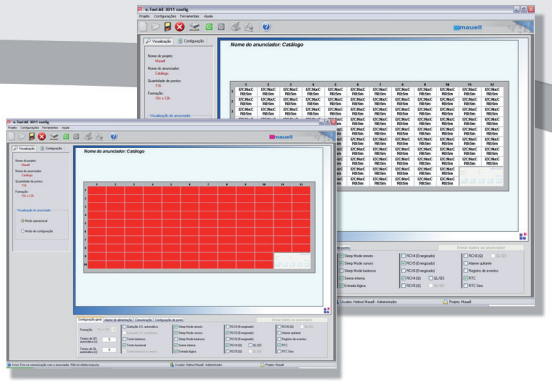
Main Features (some items are optional)

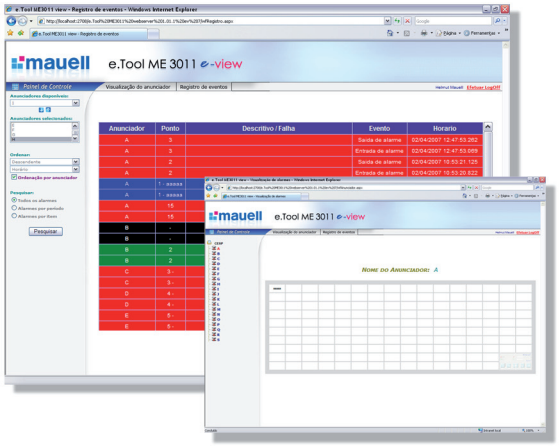


- Ultrahigh modularity, allowing configurations from 4 to 252 fields;
- Interface with apparent LED's (5mm) or backlight on windows with 24 x 48 mm;
- Configuration via software tool;
- RS232C/485 communication ports for programming and network communication;
- Modbus RTU communication protocol, capable of 1000 events recording with 1ms resolution with GPS synchronization;
- Integrated full-range power supply, for DC and AC power;
- Wide range of field voltage inputs;
- Optional socket led modules, allowing color change of alarm windows even at field;
- Flash synchronism for annunciator networks;
- GPS synchronism input, for PPS or IRIG-B signals;
- DC and AC power supply fault supervision, through luminous, acoustic and remote signaling;
- 3 general purpose programmable relays;

Tools

This annunciator can be thoroughly configured by software. The e.Tool ME 3011 config guarantees easy and complete functionality, providing the user all possible configurations of the product.





ME 3011b provides powerful tools for monitoring and controlling applications in annunciator networks. With a smart and user friendly interface, the e.Tool ME 3011 view software brings to the screen virtual annunciators with real-time process data and events recording with 1ms resolution. This software also offers a web server version called e.Tool ME 3011 e-view, allowing the distribution of field information to standard web browsers over LAN's and WAN's.

www.mauell.com.br
Helmut Mauell do Brasil Ind. e Com. Ltda
Tel: +55 11 2117-5353 Fax: +55 11 2117-5354

Programmable Functions

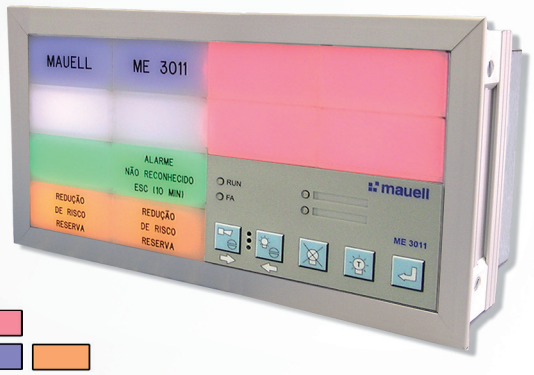
- Programmable NO / NC input option, attributes and debouncing filter for each alarm field individually;
- ISA sequences selectable by each field;
- Automatic and manual acknowledgement;
- Buttons interlocking;
- Sleep Mode;
- Several options for acoustic signaling;

Interfaces

- Removable terminal blocks for field wiring (up to 2.5 mm ²);
- RS 232C serial interface through via RJ11 connector;
- RS 485 through removable terminal block;

Configurations

- 4 to 252 alarm fields;
- Backlight signaling in red, yellow, green, blue and white or apparent 5mm LED's in red, yellow and green;
- Minimum configuration of 4 alarm fields, expandable in steps of 4 fields;



Colors

Communication

- RS 232C interface used for software point-to-point configuration and / or for annunciator supervising;
- RS485 interface for remote supervision through network (SCADA or other compatible devices) over Modbus RTU Slave protocol, allowing the following functions:

- Reading of the annunciator's physical inputs;
- Reading of the alarm field states (alarm field signaling);
- Writing of logical alarms;
- Annunciator's buttons remote control;
- Reading of recorded events (with 1ms timestamp);
- Annunciator's configuration reading;
- Real time clock (RTC) synchronization and loading;

Other Features

- Field voltage options: 24, 48, 60, 110/125 Vdc (± 20 %); 110/127, 220 Vac (± 20 %);
- Supply voltage options: 24 Vdc (± 20%) (single power supply) / 19-264 Vdc and/or 90-264 Vac (single or dual power supplies);
- Power supply option: single and redundant AC / DC ;
- Signaling sequences ISA 1 / 1A / 1B / 2A / 2C 4A / 4AR;
- Individual alarm field windows. Dimensions of 24 x 48 mm in modern and elegant Waben structure;
- Remote buttons interface;
- Optional AC and DC power supply fault supervision signaling;
- Optional alarm input repeater relays with common root;
- Luminous signaling frequency: 0.4 Hz (slow) or 1.2 Hz (fast);
- Remote keypad disabling;
- External buzzer connectable;
- 3 general purpose programmable relays.

ALARM SEQUENCE

REF ISA	ALARM	NORMAL	ABNORMAL	ACKNOWLEDGE		BACK TO NORMAL	BACK TO NORMAL BEFORE ACKNOWL.	ACKNOWLEDGE		RESET
				SOUND	LIGHT			SOUND	LIGHT	
ISA 1 (A)	Light	●	○	○	○	●	○	○	●	
	Sound	▭	◢	▭	▭	▭	◢	▭	▭	
ISA 1A (A-5)	Light	●	○	○	○	●	○	○	●	
	Sound	▭	◢	▭	▭	▭	◢	▭	▭	
ISA 1B (A-4)	Light	●	○	○	○	●	○			
	Sound	▭	◢	▭	▭	▭	◢			
ISA 2A (R-8)	Light	●	○ F	○ F	○	○ S	○ F	○ F	○ S	●
	Sound	▭	◢	▭	▭	▭	◢	▭	▭	▭
ISA 2C (M) (default)	Light	●	○	○	○	○	○	○	○	●
	Sound	▭	◢	▭	▭	▭	◢	▭	▭	▭
(default)	Sonoro	▭	◢	▭	▭	▭	◢	▭	▭	▭

www.mauell.com.br
Helmut Mauell do Brasil Ind. e Com. Ltda
Tel: +55 11 2117-5353 Fax: +55 11 2117-5354

Subject to change without notice. v0609