

Addressing and test unit for sensors

FIXA



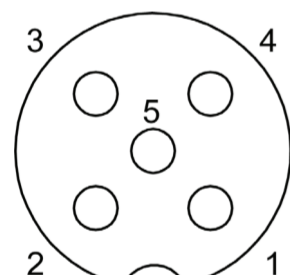
FIXA is a tool for:

- Addressing and configuration of AS-i bus sensors.
- Addressing and configuration of sensors for the Jokab Safety StatusBus.
- Test of sensors for the AS-i bus, sensors for the Jokab Safety dynamic safety circuit, and common sensors with PNP output.

Connection

The standard M12 connector is used for connection to the bus as well as other sensors. The pins have different functionalities depending on selected mode.

Pin	Mode selected				
	AS-i	PNP Sensor test	Dyn. Sensor test	OSSD sensor test	StatusBus
1	AS-i +	+24V	+24V	+24V	+24V
2	-	-	Dynamic signal out	OSSD 1	-
3	AS-i -	0V	0V	0V	0V
4	-	-	Dynamic signal in	OSSD 2	-
5	-	Test signal in	-	-	StatusBus



Viewed from outside

Micro-USB

The micro-USB connector is connected to USB charger adapter for NiMH charging. The unit is operational during battery charging. If USB is connected to a PC (with 500 mA current limit as standard) the batteries will not be charged, however, the unit will be powered from the PC and bus voltage generation is possible with the batteries as power source.

Buttons

MODE

Browse through the main functions in FIXA. This button has highest priority which ensures quick function selection regardless of current FIXA mode.

SEL

Selects the main function browsed by MODE. Once selected, the button works as sub-menu selection.

PRG

Program new content into selected slave or save new settings in FIXA.

READ

Power ON FIXA when OFF. When FIXA is ON, read status of next slave available on the bus or start execution of sensor test.

▲ Increase programmable value displayed with large text in display.

▼ Decrease programmable value displayed with large text in display.

When a programmable value has been changed with the arrow buttons it will flash periodically until *PRG* is pressed to confirm, or *READ* is pressed to cancel the action.

Display

The content depends on the selected menu. The upmost row is always the headline and may contain the menu name and battery indicator.



This example shows an AS-i A/B slave with address 2A and profile S-7.A.E. Batteries are being charged.

Note: FIXA is connected to AS-i bus which is externally powered.

Display battery indicator

A battery icon is displayed in the upmost display row when

- battery voltage is low or
- charging is active or
- batteries are damaged

Flashing icon. Low battery level. Charging is needed.

Charging.

Batteries are full.

Flashing icon. Error, batteries missing or damaged.

Menu system

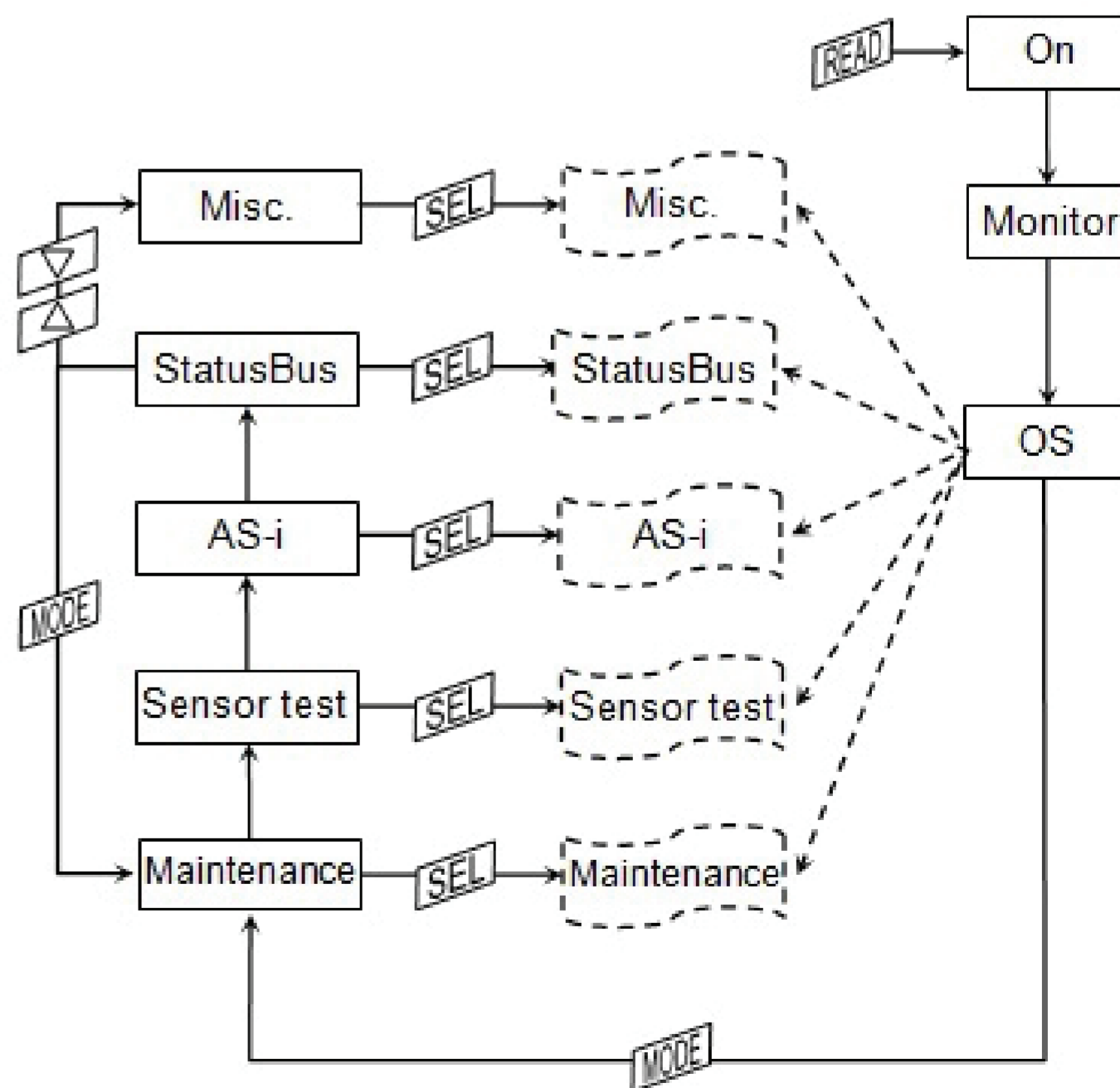
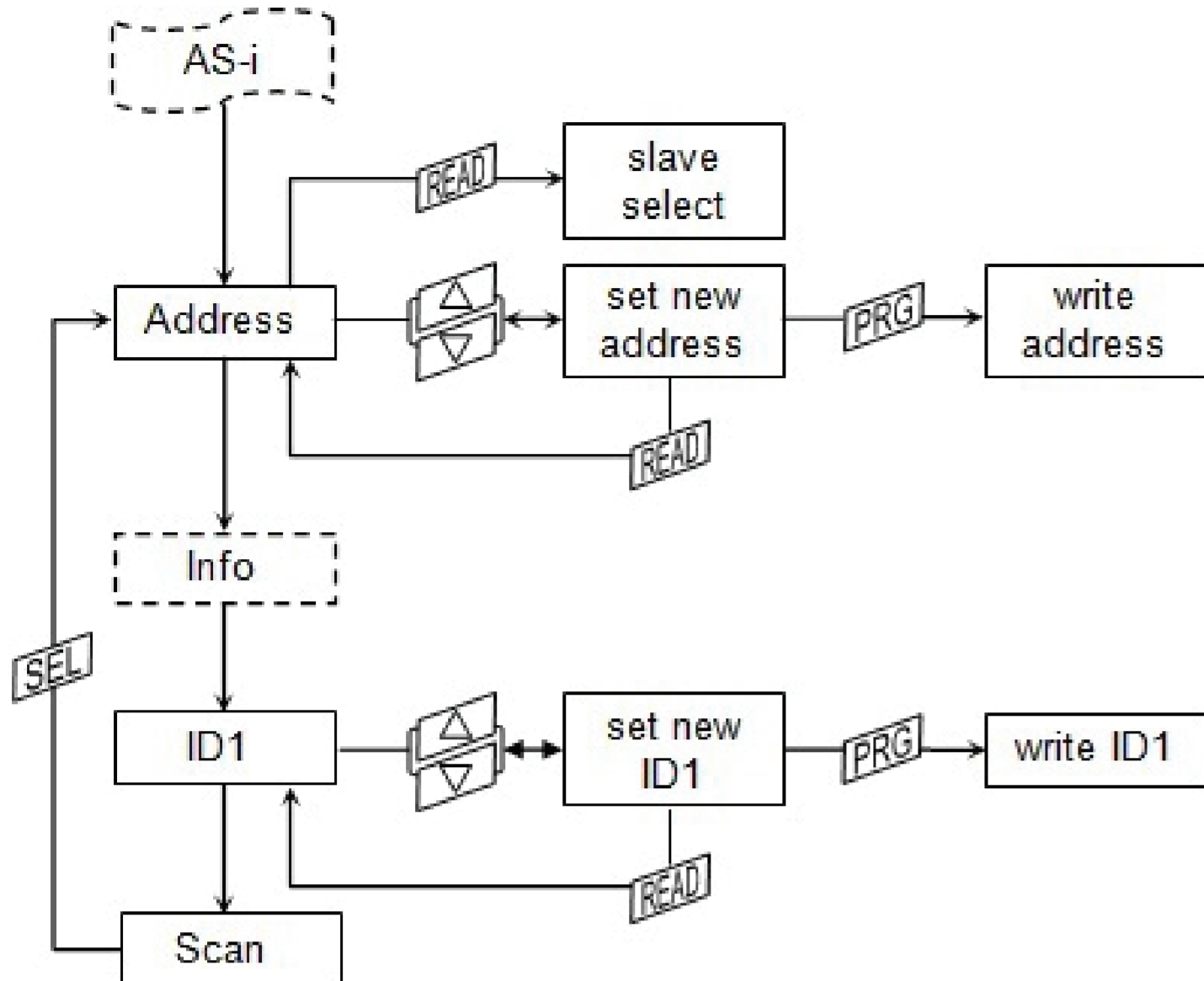


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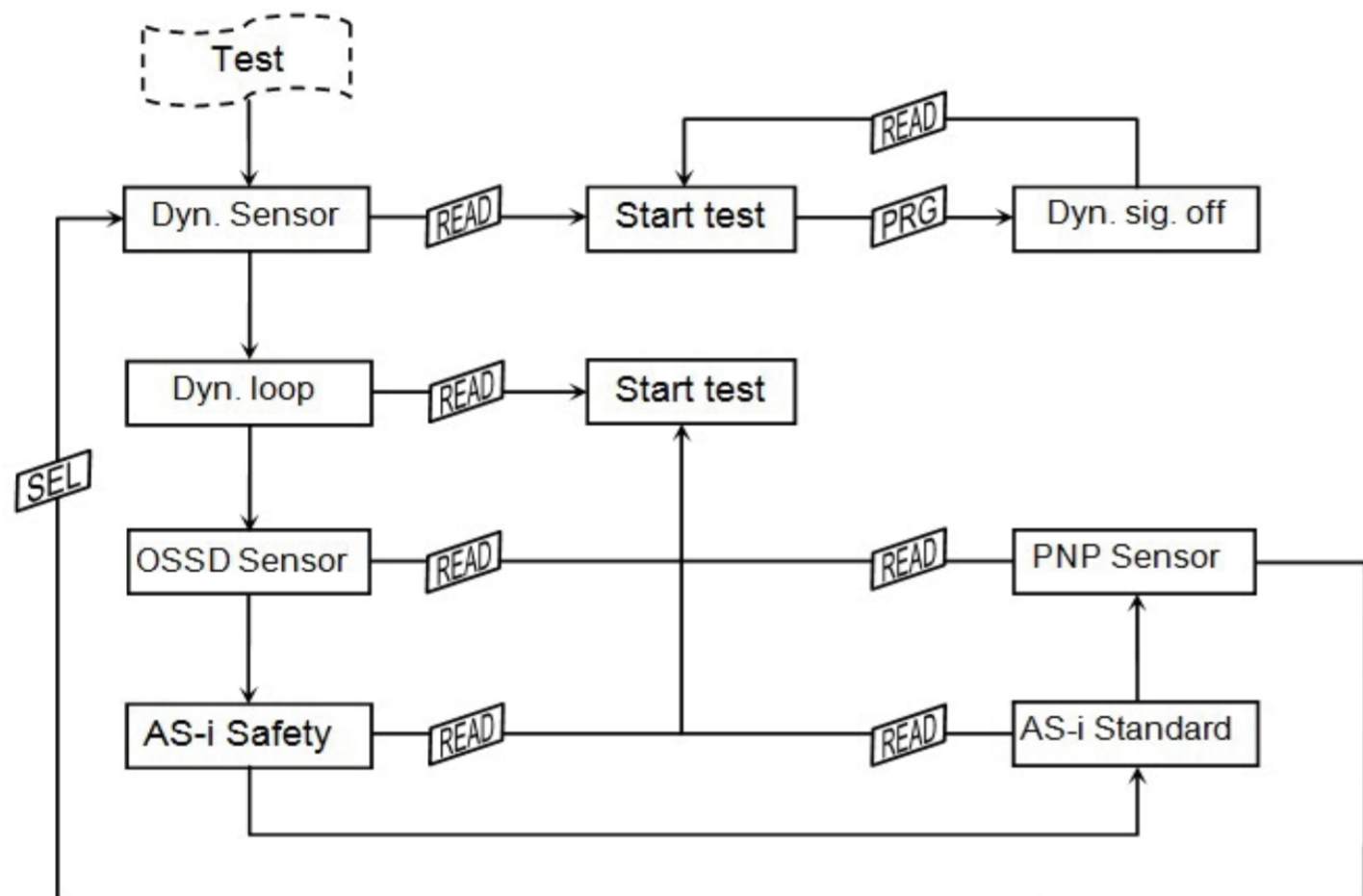
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When a unit is powered on it will continue in previously used mode. The mode may be changed at any time by pressing the *MODE* button. The selected mode is entered by pressing *SEL* button. The following is a description of the AS-i, Sensor test, StatusBus, Maintenance and Misc. menu system and navigation.

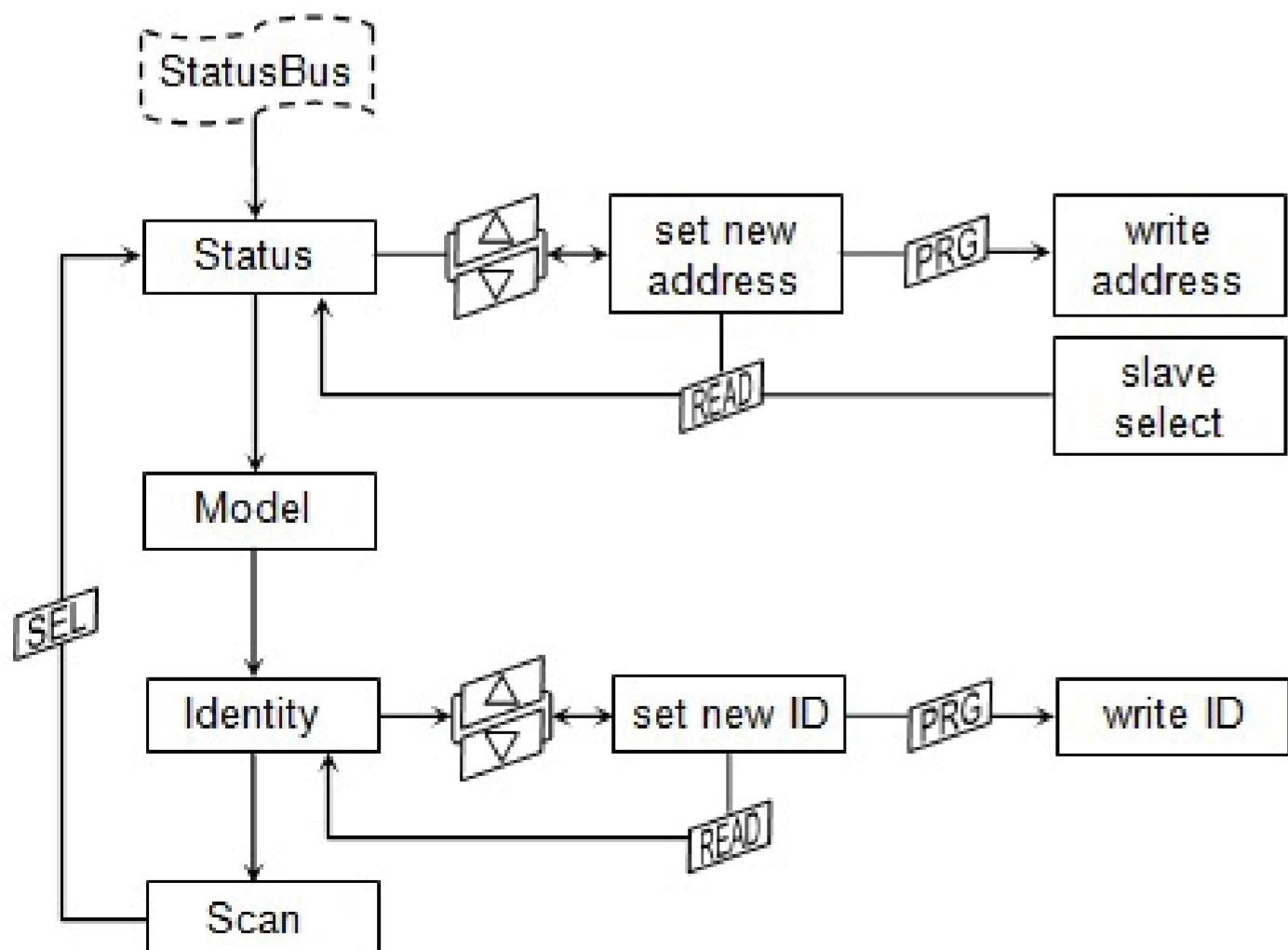
AS-i mode



Sensor test mode

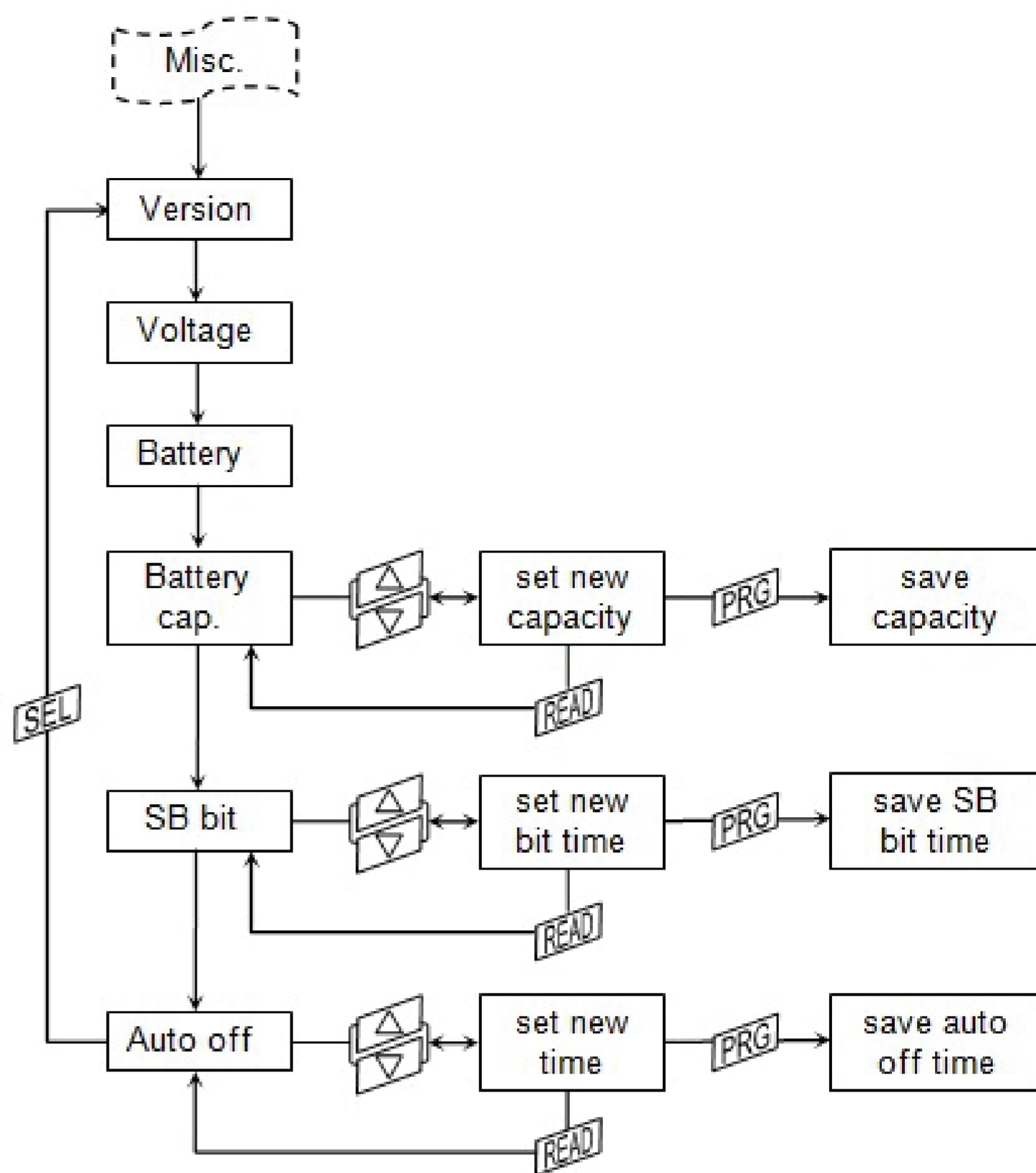


Status bus mode

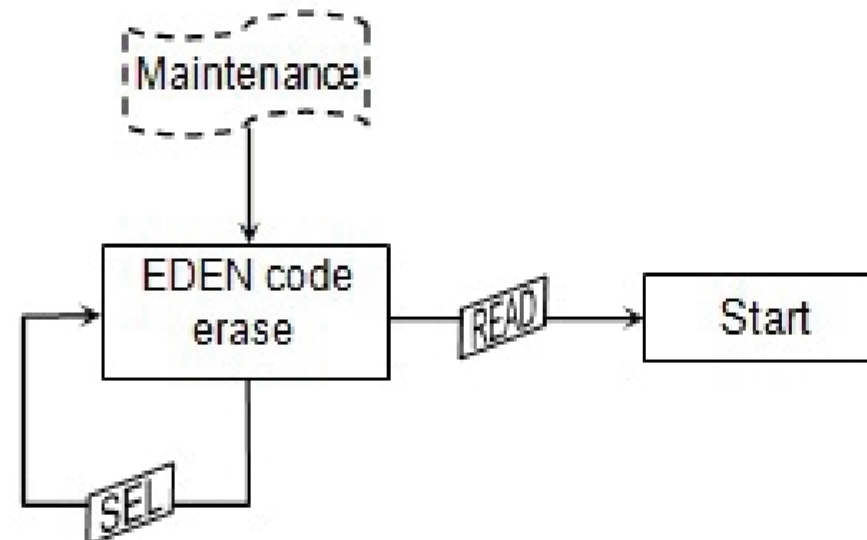


Misc. mode

The "Misc." mode is hidden, and it is selected by pressing *MODE* - - and then entered by *SEL* button.



Maintenance mode



Software update:

The software in FIXA can be updated via Pluto Manager.

Technical data:

DC characteristics	
Current consumption with external bus voltage	100±20 mA
Current consumption with internally generated bus voltage	<850±20 mA
Battery type	3*NiMH AAA rechargeable
Nominal battery voltage/cell. I.e specified AAA NiMH battery voltage	1.2 Vdc
Default battery capacity	1000 mAh
Externally unit supply voltage via micro-USB connector	5±0.25 Vdc
External/Internal generated AS-i voltage range	26.5 - 31.6 Vdc

Mechanical

Enclosure dimensions WxHxD	73x140x31 mm
Total unit weight with batteries, cable excluded	250 g

Environmental

Degree of protection	IP40
Temperature range	+5 to +50° C
Temperature transportation and storage	-25 to +55° C

Approval

Approval

