

1. Available firmware, archives and documentation

Firmware

Mhx file - Standard	Mhx file - China
IL-MRS10-2.4.mhx	IL-MRS10-2.4-C.mhx
IL-MRS11-2.4.mhx	IL-MRS11-2.4-C.mhx
IL-MRS15-2.4.mhx	IL-MRS15-2.4-C.mhx
IL-MRS16-2.4.mhx	IL-MRS16-2.4-C.mhx
IL-AMF20-2.4.mhx	IL-AMF20-2.4-C.mhx
IL-AMF25-2.4.mhx	IL-AMF25-2.4-C.mhx

Archives

Archives - Standard	Archives - China
MRS10-2.4.ail	MRS10-2.4-C.ail
MRS11-2.4.ail	MRS11-2.4-C.ail
MRS15-2.4.ail	MRS15-2.4-C.ail
MRS16-2.4.ail	MRS16-2.4-C.ail
AMF20-2.4.ail	AMF20-2.4-C.ail
AMF25-2.4.ail	AMF25-2.4-C.ail

Documentation

PDF files	Description
IL 2.3-New features.pdf	New feature list of the previous version
IL-MRS-2.4.pdf	Manual for all IntelliLite MRS configurations
IL-AMF-2.4.pdf	Manual for all IntelliLite AMF configurations

2. Main changes in IL-2.4

IntelliLite software pack version 2.4 is based on previous 2.3 version.
There are two IL firmware modifications: IL-2.4 (Latin characters) and IL-2.4-C (Chinese characters).
IL-2.4 version is compatible with LiteEdit version 2.0.

New features

- ECU diagnostics**
ECU Yellow and Red diagnostic lamp alarms won't be displayed in the IL alarm list anymore. Their state will be available in the "ECU state" screen and on *ECU YellowLamp* and *ECU RedLamp* binary outputs. (Wiring these outputs to binary inputs and configuring them as alarms provides the existing functionality.)
- Volvo Penta and Scania ECU support**
Added new setpoint **Engine params:** *ECU SpeedAdj* to adjust engine speed via CAN bus while no other mean of adjusting (e.g. Vodia, CIU for Volvo) is available. The setpoint value is sent to ECU via CAN bus.

New binary inputs

MainsFailBlock

If the input is closed, the automatic start of the gen-set at Mains failure is blocked. In case of running gen-set the GCB is opened, gen-set goes to Cooling procedure and stops.
The input simulates healthy Mains.

IntelliLite V2.4 – New features / ©ComAp – April 2005 / IL 2.4-New features.pdf

New binary outputs

Cooling pump

The output closes when gen-set starts and opens **Engine params:** [AfterCool time](#) after stop of the engine.

Cooling

The output closes when gen-set is in Cooling state.

New setpoints

AfterCool time [s]

Runtime of engine after cooling pump. Binary output *Cooling pump* is closed when the engine starts and opens *AfterCool time* delayed after gen-set stops.

Step: 1s

Range: 0 – 3600s

ECU SpeedAdj [%]

Enables to adjust engine speed in ECU via CAN bus. Nominal speed corresponds to 50%.

This setpoint should be used only for Volvo Penta and Scania engines. It has no effect on other engine brands.

Step: 1%

Range: 0 – 100%

Repairs

- **Engine protect:** *Horn timeout* did not run from the beginning if a new alarm came while the previous *Horn timeout* was in progress.
- If the gen-set was running in Island operation, the Mains returned but during **AutoMains Fail:** *FwRet break* left limits for Mains voltage/frequency again for time longer than the delay of voltage/frequency protections, after the return into limits the MCB closed immediately after **AutoMains Fail:** *MCB close del* and didn't count down the *FwRet break* again.
- Fixed display of alarms with `wrn` prefix in the Alarm list.
- Changed evaluation of RPM value coming from ECU via J1939.