MUX2700G

New Features Summary

➢ New processor board

The "processor" board has been fully redesigned and a new state-of-the-art single-chip microprocessor adopted.

More memory is now available for future expansions, and the higher integration level (i.e. less components) ensures better reliability and reduced power-consumption.

➢ New Firmware

The unit FW has been fully redesigned, so to ensure better performances and consistent behaviour in all operating conditions. A multi-tasking real-time kernel is now used, that coupled with the more powerful CPU and wider memory will make easier any required FW upgrade, as well as the possible implementation of special functions.

The level of Hart 6.0 support was also improved, and all the internal Hart message buffers made 256-byte long.

➢ Firmware download capability

It is now possible to download to the MUX 2700G a new FW version by using the normal RS-485 line, and without removing the MUX from the termination board. You can use the same PC where the supervising SW is located, and run a special download PC SW to transfer the relevant file (you clearly have to stop supervising SW, first). It is not required to disconnect other multi-dropped MUX, when any.

The download needs only around 20 seconds to be completed. In the future, the FW download capability could also be integrated within the supervising PC SW. In fact, an Hart message frame is used to support the FW download.

➢ RS-485 communication speed

The unit can now normally operate up to 38.4 Kb.

The option of adding also the support for 57,6 Kb and 115 Kb is being considered for short-term implementation. This would be useful when a fast polling of many RS-485 connected MUX is required.

➢ Compatibility

The MUX2700 is fully compatible, at the interface level, with all previous MUX2700 version. The sole limitation is the lack of multi-drop support at the "pass-through" command level. Multi-dropped configurations can however be managed at the "copy-command" level.