

LEAFLET

M-Bus

Modular system for
measurement acquisition

INDUSTRIE 4.0

M-Bus

Modular system for measurement acquisition



The M-Bus modules network can be used to connect probes and measuring instruments of different brands to Sylvac display units, a PLC or a computer.

These universal modules can be connected to each other to offer you a complete, scalable measurement acquisition solution.

The M-Bus modules

Do you want to use different types of sensor or measuring instrument on a manual control station or automatic machine?

M-BUS modules are the ideal solution, and can be connected to D70 and D400S units and Sylcom software.

The strength of this solution lies in its great flexibility, modularity and scalability.

Applications

Manufacturer of pharmaceutical tablets using M-BUS modules to connect various measuring devices (dimensions and weight) in order to export all collected data to third-party software for quality monitoring.

The MB-RS master module enables communication with the PC.



Medical

Imposing air and probe control station for rapid inspection of a multitude of characteristics on 25 connecting rod models. Here, M-Bus modules are connected to the D400S unit, enabling all values to be displayed simultaneously on a single screen, and different configurations to be saved.

This station includes a temperature compensation system. Values and information are automatically exported to the customer's server via the MB-NET module.



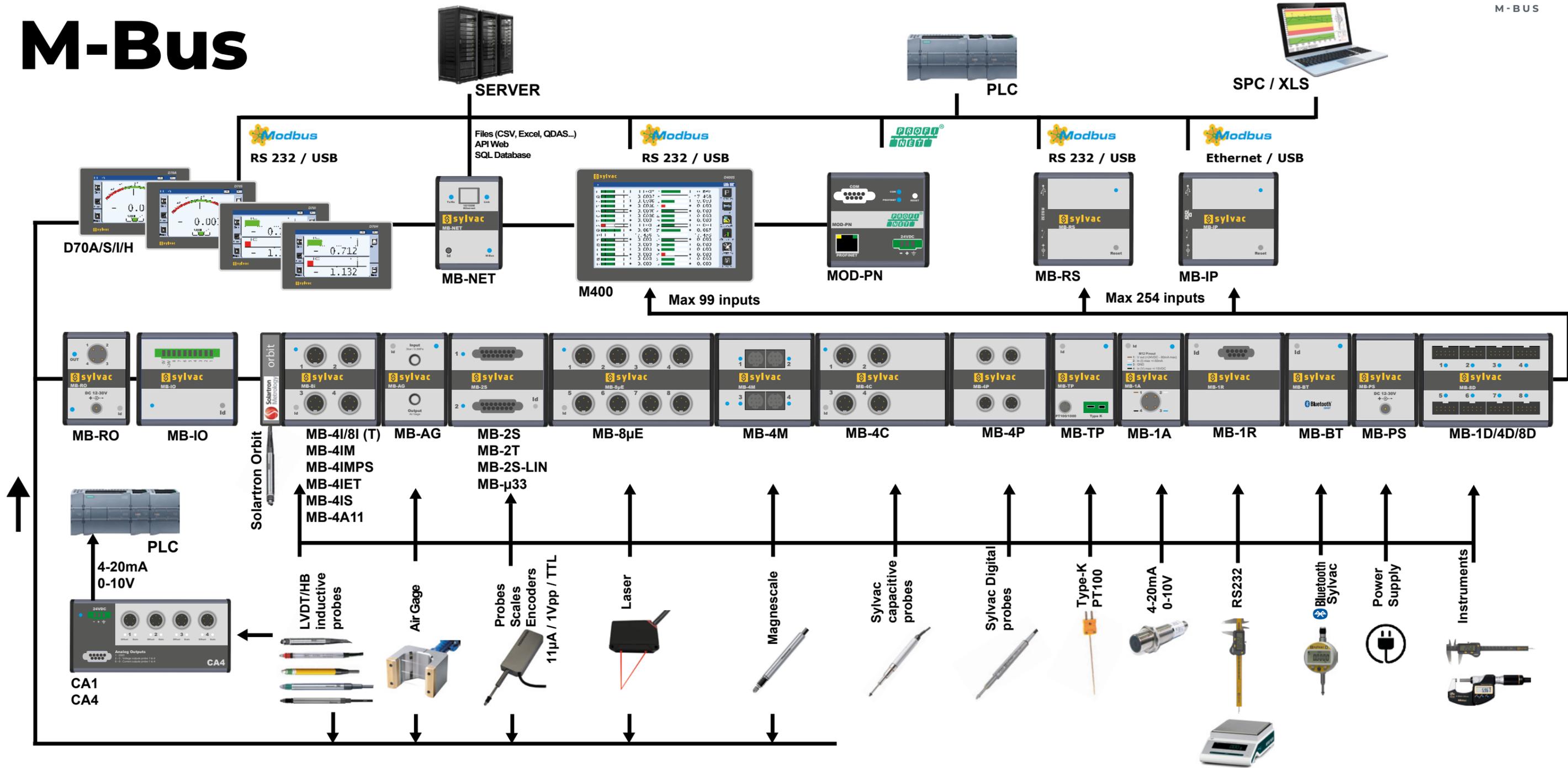
Automation

Automated sorting machine equipped with M-BUS modules for pneumatic measurement of nine inside diameters and several heights using inductive probes. The whole system is controlled by the D400S unit, which manages the various parameters and ensures Profinet communication with the machine's main PLC.

Automotive



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Some of these modules are only available on special request.

Robust construction

The M-Bus modules are manufactured in an anodised aluminium profile for mounting on a DIN rail. The modules can be connected directly to each other via the M-Bus ports located on either side of the module (male / female port). These modules are very robust and suitable for use in industrial environments.



Digitalise your measurement stations and enter the era of Metrology 4.0!

Thanks to our display units, such as the D400S, you can connect all the measuring instruments in a production control station via the M-BUS network: probes, air gages, digital indicators, micrometers, calipers, scales, roughness testers, etc. The interface guides operators through their measurement tasks, enabling them to collect information via QR codes (Batch number, operator name, etc.) and even input attributes characteristics. At the end of the inspection, the operator can view all the data, including a few SPC curves to help with adjusting its machine, then export to the network in a format compatible with your quality system or ERP via the MB-NET module (file creation or export to web software). All this is based on a Windows-free IoT system, eliminating any risk of virus or computer attack via these systems.



Air measurement with Sylcom software

M-Bus

Master Modules	REF
M-BUS master module MB-RS for communication with PC	804-2170
Measurement acquisition modules	REF
M-BUS module MB-4C with 4 Sylvac capacitive probe input	804-2104
M-BUS module MB-4P with 4 Sylvac P12D probe input	804-2105
M-BUS module FMB-4i with 4 inductive probe input (fast version)	804-2107
M-BUS module MB-8i with 8 inductive probe input	804-2108
M-BUS module MB-1D with 1 Mitutoyo Digimatic input	804-2111
M-BUS module MB-4D with 4 Mitutoyo Digimatic input	804-2114
M-BUS module with 2 probes 1Vpp input	804-2122
M-BUS module with 1 analogue input	804-2123
M-BUS module MB-1R with 1 entry RS232	804-2130
M-BUS module MB-PS power	804-2140
M-BUS module MB-BT for the connection of 8 Sylvac BT Smart instruments	804-2160
M-BUS module MB-AG for air gages	804-2190
Accessory modules - automation - communication	REF
M-BUS module MB-TP, temperature	804-2180
M-BUS module MB-RO with 1 output relay	804-2134
M-BUS module MB-PS power	804-2160
M-BUS module MB-I/O with 8 input/output	804-2132
M-BUS module MB-NET for connection to server	804-2133

Compatible displays

Display units	REF
Display unit D400S	804-2400
Display unit D70S - 2 capacitive probes inputs	804-2070
Display unit D70I - 2 inductive probes inputs	804-2071
Display unit D70H - 1Vpp probe input	804-2072
Display unit D70A - 1 air gage input	804-2074
Display unit D70A - 2 air gage inputs	804-2075



Avenue des Sciences 19
 1400 Yverdon-les-Bains
 www.sylvac.ch
 admin@sylvac.ch
 +41 21 637 67 57

Your agent/distributor

SYL-2402-L-MBU-E