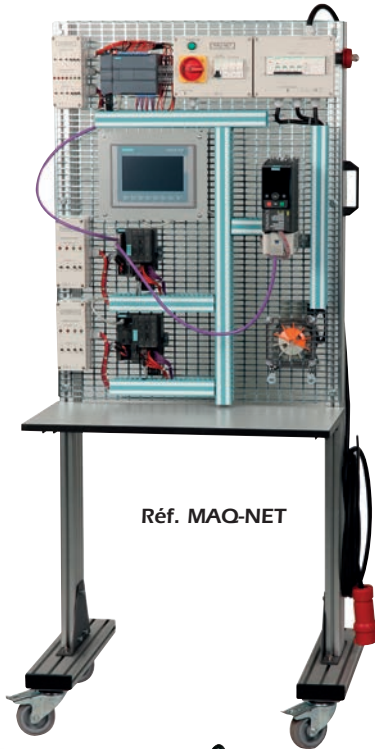
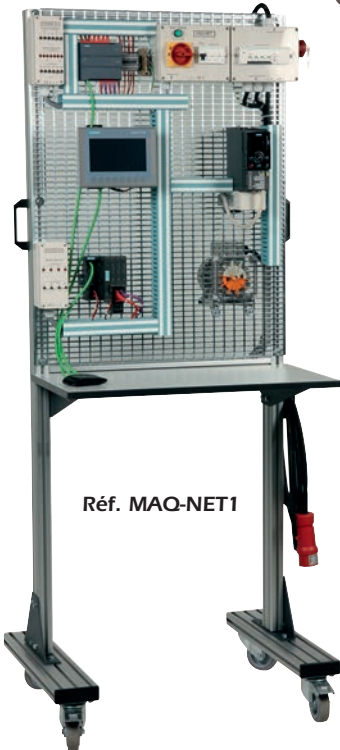


**FIELD BUS STUDY FOR PROFINET® & PROFIBUS® - SIEMENS® COMPONENTS**



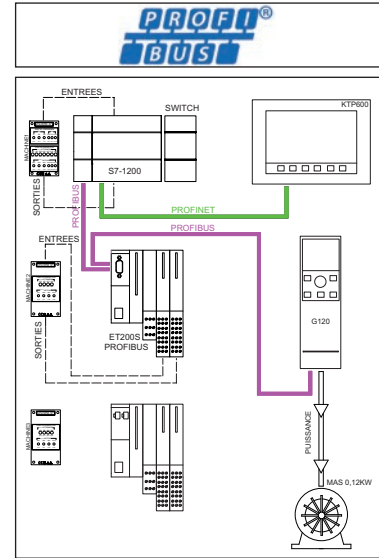
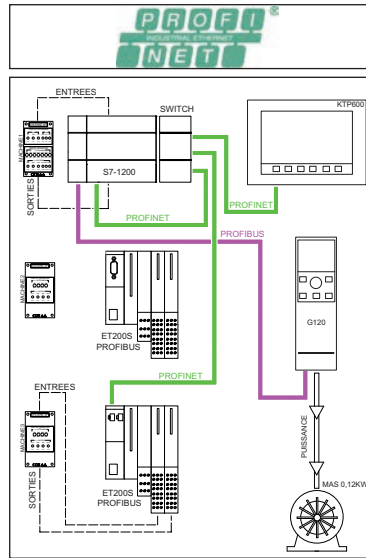
Réf. MAQ-NET



Réf. MAQ-NET1



Réf. MAQ-NET2



**SIEMENS**

Educational objectives	MAQ-NET	MAQ-NET1	MAQ-NET2
Fieldbus communication study between different automation components	✓	✓	✓
Profinet® cabling study	✓	✓	✓
Profibus® cabling study	✓		
Configuration of Profibus® components	✓		
Configuration of Profinet® components	✓	✓	✓
Configuration of remote inputs / outputs	✓	✓	
Setting the dimmer in Wifi	✓	option SIE-WI	option SIE-WI
Programming of an HMI, PLC, drive assembly	✓	✓	✓

Practical works	MAQ-NET	MAQ-NET1	MAQ-NET2
Wiring of a Profibus network / Creation of a Profibus® network	✓		
Wiring a Profinet network / Creating a Profinet® network	✓	✓	✓
Programming a programmable controller	✓	✓	✓
Programming of remote inputs and outputs	✓	✓	
HMI programming, touch screen	✓	✓	✓
Programming the drive	✓	✓	✓
Programming and supervision of the drive from a smartphone or tablet	✓	option SIE-WI	option SIE-WI
Interconnection and configuration of components for overall operation	✓	✓	✓
Using the programming software	option LOG-STEP	option LOG-STEP	option LOG-STEP

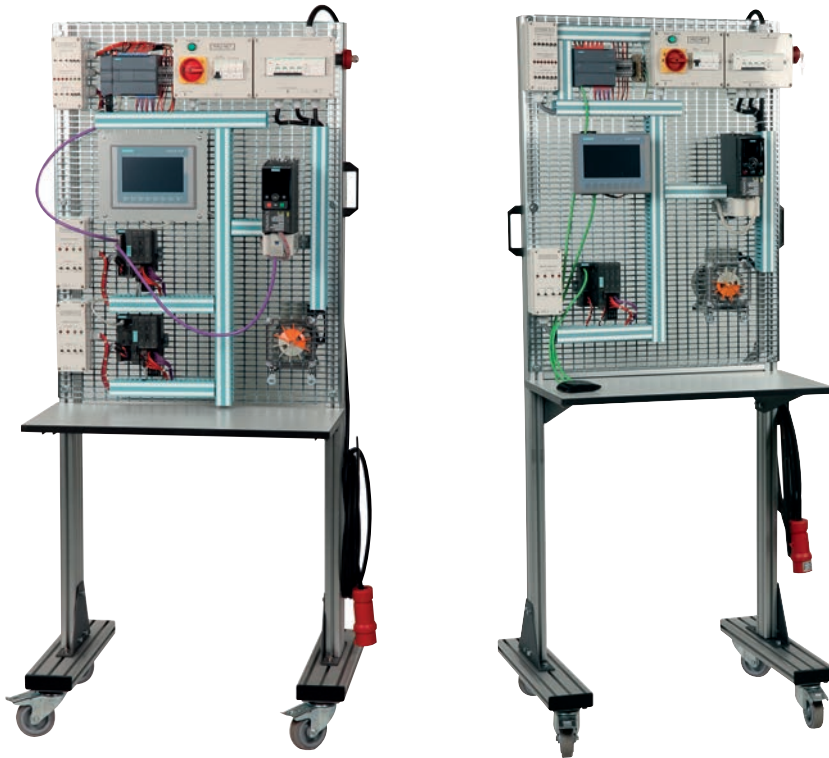
DELIVERED WIRED AND SET

AUTONOMOUS WIFI NETWORK

TEACHING RESSOURCES STUDENTS/TEACHER

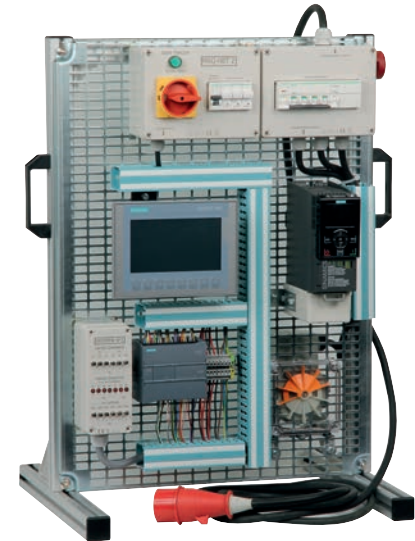
**RECOMMANDED SOFTWARE OPTION**  
 LOG-STEP is highly intuitive. On-line help and the practical assignments let students learn quickly with the different programming screens. Compatible Windows 7 (64bits) / Windows 10 (64bits) / Windows server (64bits).  
 ref. LOG-STEP

**WIFI CONSOLE OPTION (included on MAQ-NET)**  
 Wifi module designed for quick commissioning, parameter setting and maintenance of drives SINAMICS G120. It is easily connected to the front panel of the drive, replacing the rotary button control module.  
 ref. SIE-WI



**Chassis characteristics MAQ-NET et MAQ-NET1**

- On wheels (2 with brake)
- 1 melamine shelf 750 x 400mm
- dimensions H1800 x 800 x 700mm
- Weight: 67kg



**Chassis characteristics MAQ-NET2**

- Frame to be placed on the table
- Dimensions H800 x 570 x 460mm
- Weight: 40kg

Composition of the models	MAQ-NET	MAQ-NET1	MAQ-NET2
Three-phase mains power supply 3 x 400V + N + T	✓	✓	✓
1 power supply unit with user protections (30mA) and equipment. Distributes the 24VAC voltage to the variable speed drive (for the PLC, the HMI *, ...) as well as the 400VAC - 3P + T.	✓	✓	✓
1 "machine" box with 3 pushbuttons, 3 switches, 7 indicator lights as well as 3 pushbuttons, 3 switches for the simulation of sensors	✓	✓	✓
1 SIMATIC S7-1200 programmable controller. 14 inputs / 10 outputs. Integrated Ethernet port.	✓	✓	✓
1 Ethernet switch 5 RJ45 ports.	✓	✓	✓
1 5.7 "color touchscreen HMI with Profinet RJ45 port.	✓	✓	✓
1 SINAMICS G120C 0.55kW variable speed drive with integrated graphic display terminal.	✓	✓	✓
1 230 / 400V- 0.12kW asynchronous motor with fan allowing to visualize the rotation.	✓	✓	✓
1 set of Profinet cables.	✓	✓	✓
1 set of Profinet connectors	✓	✓	✓
20 meters of Profinet cable	✓	✓	✓
1 remote ET200S 4 inputs / 4 outputs interface with Profinet coupler.	✓	✓	
1 "machine" box with 4 indicator lights as well as 2 pushbuttons and 2 switches for the simulation of the sensors.	✓	✓	
1 second "machine" box with 4 indicator lights as well as 2 pushbuttons and 2 switches for the simulation of the sensors.	✓		
1 Profibus interface.	✓		
1 remote ET200S 4 inputs / 4 outputs interface with Profibus coupler.	✓		
1 set of Profibus cables.	✓		
1 set of Profibus connectors.	✓		
1 wifi programming console for SIMAMIC variator	✓		

**All models are delivered with:**

- 1 CD with component manuals as well as practical work and programming examples for the PLC, drive and HMI
- 1 Starter software for programming the variable speed drive..

