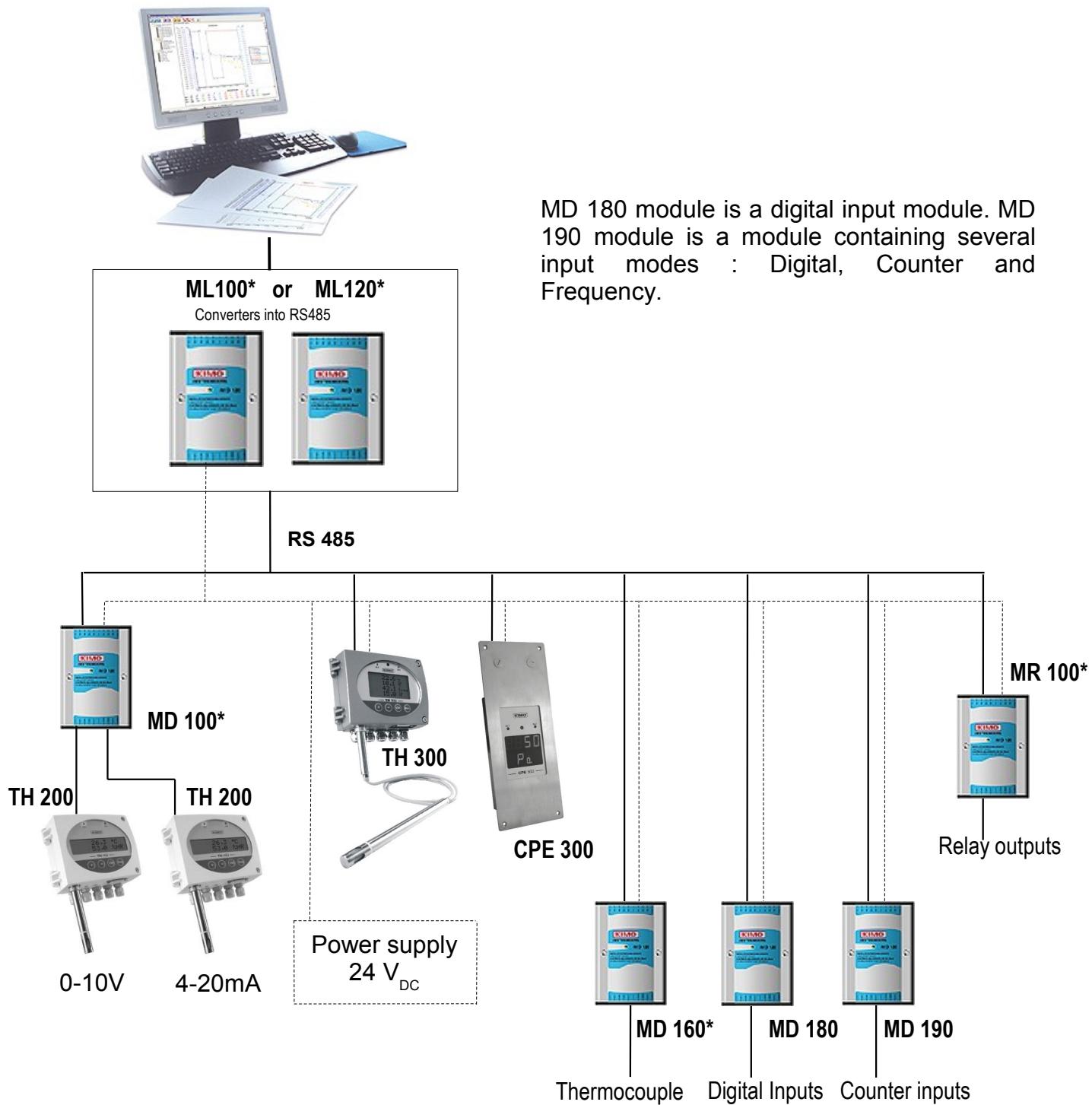




Acquisition modules
MD 180 and MD 190



* see data sheet

■ Modules digital inputs

	MD 180	MD 190
	Digital inputs module 16 inputs, Modbus-enabled	Digital inputs module 7 inputs, Modbus-enabled
Specifications		
<i>Connectors</i>	2 plug-in terminal block (#14-28AWG)	2 plug-in terminal block (#14-22AWG)
<i>Power consumption</i>	1W @ 24V _{DC}	0,7W @ 24V _{DC}
<i>Dimensions</i>	31 x 70,5 x 102 mm	31 x 70,5 x 102 mm
<i>Housing</i>	Anodised aluminium	Anodised aluminium
<i>Mounting</i>	DIN rail, wall	DIN rail, wall
<i>Power supply</i>	Unregulated 10~30 V _{DC}	Unregulated 10~48 V _{DC}
<i>Watchdog timer</i>	System (1,6 sec.) and communication	System (1,6 sec.) and communication
Environment		
<i>Humidity</i>	From 5 to 95% RH	From 5 to 95% RH
<i>Operating temperature</i>	From -10 to +70°C	From -10 to +70°C
<i>Storage temperature</i>	From -25 to +85°C	From -25 to +85°C
	Digital input <i>Breakdown voltage</i> 500V _{AC} (50/60 Hz) <i>Channels</i> 16 <i>Input voltage</i> 50 V max <i>Input level</i> Level 0 : open Level 1 : close to GND Wet contact Level 0 : +3 V max Level 1 : +10~50V (The digital input level 0 and 1 status can be inverted) <i>ESD (electrostatic discharge)</i> 2000V _{DC} <i>Response time</i> 25µs <i>Isolation voltage</i> 2500 V _{DC} <i>Input resistance</i> 5,2 kΩ <i>Overvoltage protect</i> 70V _{DC}	Digital input <i>Channels</i> 7 <i>Input voltage</i> 30 V max <i>Input level</i> Level 0 : close to GND Level 1 : open Wet contact Level 0 : +3 V max Level 1 : +10~30V (The digital input level 0 and 1 status can be inverted) <i>Isolation voltage</i> 3000 V _{DC} <i>Overvoltage protect</i> 40V _{DC} Supports 3 kHz Counter Input (32-bits + 1-bit overflow) Supports 3 kHz Frequency Input

■ Configuration of communication parameters

According to module, configuration occurs by either switching or wiring

• Wiring (MD 180)

- Power-down the module
- Plug INIT with GND
- Power-up,
the module is ready to configure

• Reset by switching INIT/Normal button (MD 190)

- Power-down the module
- Put the push-button on INIT
- Power-up the module,
the module is ready to configure

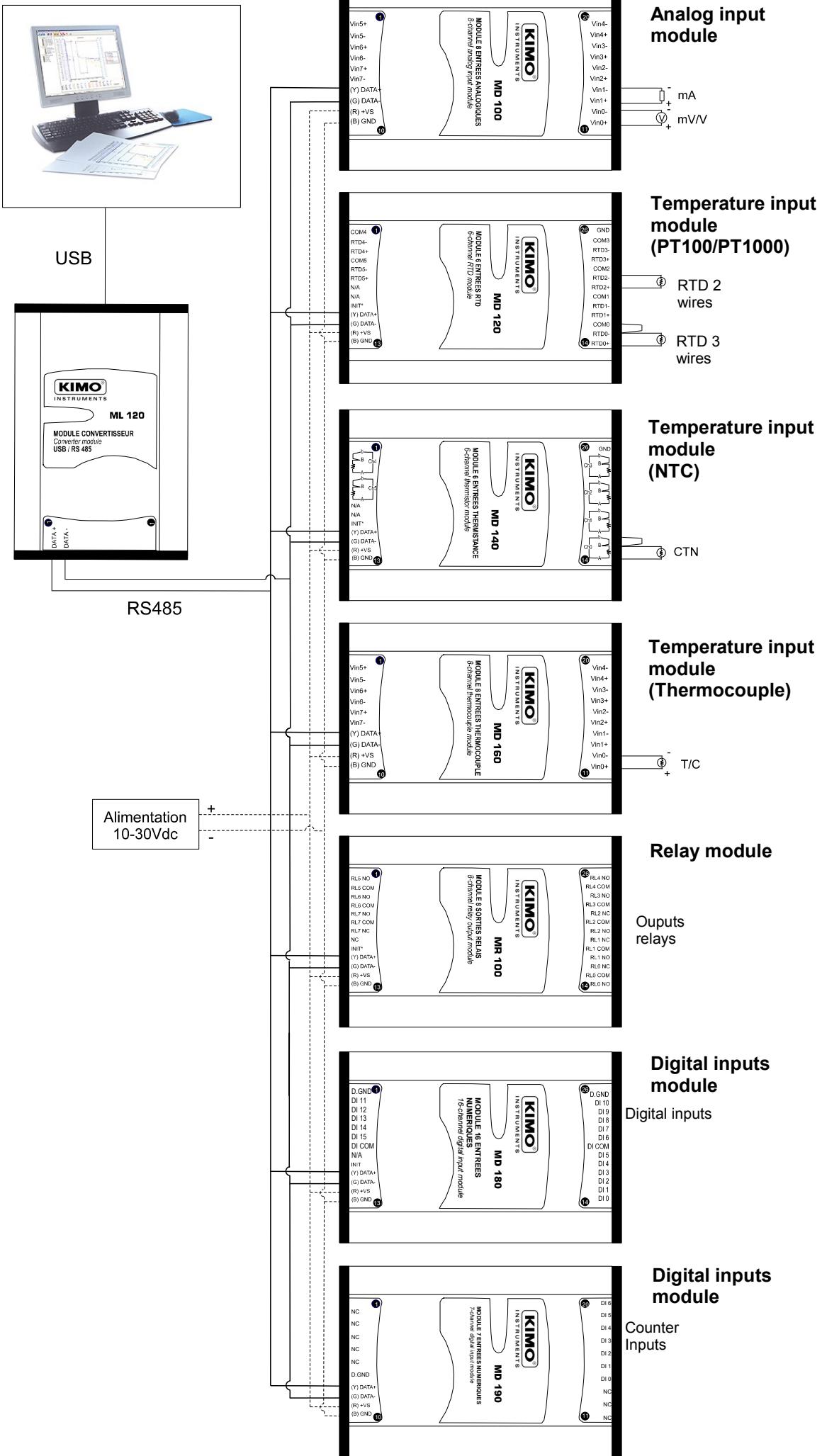
Go to configuration mode
Back to measurement mode

- Power-down the module
- Unplug INIT and GND
- Power-up,
the new configuration is activated

Go to configuration mode
Back to measurement mode

- Power-down the module
- Push the button on "Normal"
- Power-up,
the new configuration is activated

Application wiring



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