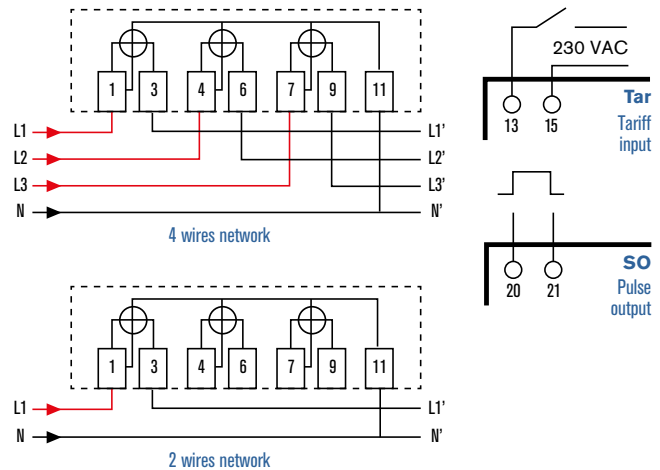


# DVH 5141 (65A) | DVH 5161 (100A)

ENERGY METER WITH DIRECT THREE - PHASE CONNECTION

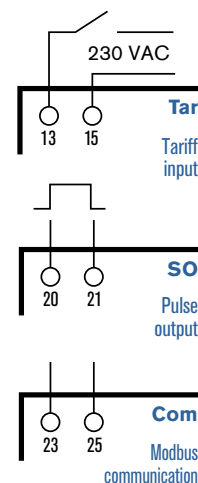
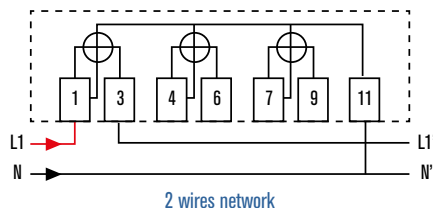
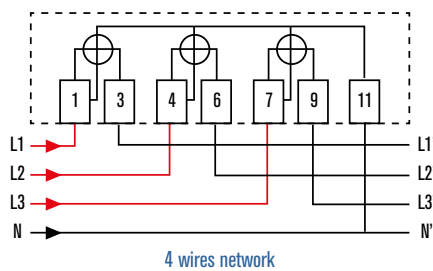


WIRING DIAGRAMS

TECHNICAL CHARACTERISTICS	DVH 5141-65A	DVH 5161-100A
<b>VOLTAGE INPUTS</b>		
Nominal voltage $U_s$	90 - 260 VAC/CC	90 - 260 VAC/CC
Operating voltage range	$\pm 15\%$	$\pm 15\%$
Power consumption	5VA	5VA
<b>CURRENT INPUTS</b>		
Connection type	Direct three-phase connection	Direct three-phase connection
Reference current	10 A	10 A
Max current	<b>65 A</b>	<b>100 A</b>
Start current	40 mA	40 mA
<b>ACCURACY</b>		
Active energy (EN62053-21)	Class C (MID) 0,5%	Class C (MID) Class C (MID) 0,5%
<b>METROLOGIC LED</b>		
Pulse number	<b>1000</b> pulses/kWh	<b>500</b> pulses/kWh
Pulse duration	30ms	30ms
<b>TARIFF INPUT</b>		
Nominal Voltage	0 ... 230Vac	0 ... 230Vac
Max Voltage	265 Vac	265 Vac
<b>STATIC OUTPUTS</b>		
Output number	1	1
Pulse length	Programmable 30 $\div$ 500 ms	Programmable 30 $\div$ 500 ms
Max Voltage	15 Vdc	15 Vdc
Max Current	15 mA	15 mA
<b>RS485 SERIAL INTERFACE</b>		
Protocol	-	-
Baud-rate	-	-
<b>HOUSING</b>		
Version	6 modules (DIN 43880)	6 modules (DIN 43880)
Mechanical dimensions (mm)	105.4 x 96.2 x 65.86	105.4 x 96.2 x 65.86
Weight	520 g	520 g
Degree of protection	IP 51	IP 51
<b>AMBIENT OPERATING CONDITIONS</b>		
Mounting	Indoor use only	Indoor use only
Operating temperature	-25°C ... +55°C	-25°C ... +55°C
Storage temperature	-25°C ... +55°C	-25°C ... +55°C
Mechanical environment	Class M2	Class M2
Electromagnetic environment	Class E2	Class E2
Relative humidity	75%	75%
<b>CERTIFICATIONS AND COMPLIANCE</b>		
Reference standards	EN 62053-31, EN 50470-1, EN 50470-3	EN 62053-31, EN 50470-1, EN 50470-3

# DVH 5241 (65A) | DVH 5261 (100A)

ENERGY METER WITH DIRECT THREE-PHASE CONNECTION - RS485 SERIAL INTERFACE

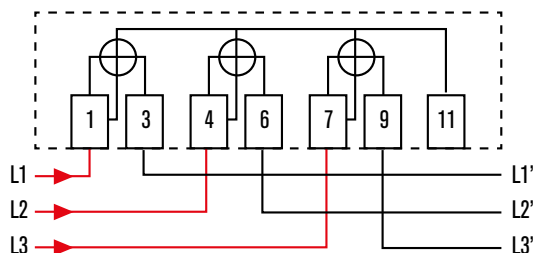


WIRING DIAGRAMS

TECHNICAL CHARACTERISTICS	DVH 5241-65A	DVH 5241-100A
<b>VOLTAGE INPUTS</b>		
Nominal voltage $U_s$	3 x 230 / 400 V (-20 % / +15%)	3 x 230 / 400 V (-20 % / +15%)
Operating voltage range	50 Hz / 60 Hz	50 Hz / 60 Hz
Power consumption	< 5VA / <2 W	< 5VA / <2 W
<b>CURRENT INPUTS</b>		
Connection type	Direct three-phase connection	Direct three-phase connection
Reference current	10 A	10 A
Max current	<b>65 A</b>	<b>100 A</b>
Start current	40 mA	40 mA
<b>ACCURACY</b>		
Active energy (EN62053-21)	Class C (MID) 0,5%	Class C (MID) Class C (MID) 0,5%
<b>METROLOGIC LED</b>		
Pulse number	1000 pulses/kWh	5000 pulses/kWh
Pulse duration	30ms	30ms
<b>TARIFF INPUT</b>		
Nominal Voltage	0 ... 230Vac	0 ... 230Vac
Max Voltage	265 Vac	265 Vac
<b>STATIC OUTPUTS</b>		
Output number	1	1
Pulse length	Programmable 30 ÷ 500 ms	Programmable 30 ÷ 500 ms
Max Voltage	15 Vdc	15 Vdc
Max Current	15 mA	15 mA
<b>RS485 SERIAL INTERFACE</b>		
Protocol	Modbus RTU Modbus ASCII	Modbus RTU Modbus ASCII
Baud-rate	Programmable 300÷19200 bps	Programmable 300÷19200 bps
<b>HOUSING</b>		
Version	6 modules (DIN 43880)	6 modules (DIN 43880)
Mechanical dimensions (mm)	105.4 x 96.2 x 65.86	105.4 x 96.2 x 65.86
Weight	520 g	460 g
Degree of protection	IP 51	IP 51
<b>AMBIENT OPERATING CONDITIONS</b>		
Mounting	Indoor use only	Indoor use only
Operating temperature	-25°C ... +55°C	-25°C ... +55°C
Storage temperature	-25°C ... +70°C	-25°C ... +70°C
Mechanical environment	Class M2	Class M2
Electromagnetic environment	Class E2	Class E2
Relative humidity	75%	75%
<b>CERTIFICATIONS AND COMPLIANCE</b>		
Reference standards	EN 50470-1, EN 50470-3	EN 50470-1, EN 50470-3

# DDH 5141-M | DDH 5161-M

ENERGY METER WITH DIRECT THREE - PHASE CONNECTION 3 WIRE



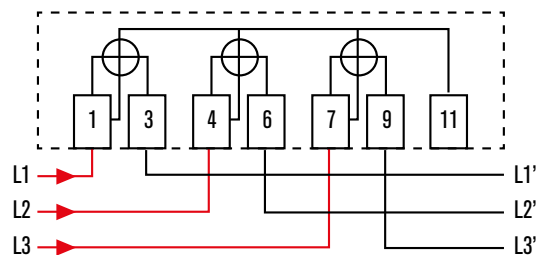
3 wires network (without neutral)

WIRING DIAGRAMS

TECHNICAL CHARACTERISTICS	DDH 5141-M	DDH 5161-M
<b>VOLTAGE INPUTS</b>		
Nominal voltage Us	3 x 400 V or 3 x 230 V	3 x 400 V or 3 x 230 V
Operating voltage range	50/60 Hz	50/60 Hz
Power consumption	-	-
<b>CURRENT INPUTS</b>		
Connection type	Direct three-phase connection	Direct three-phase connection
Reference current	10 A	10 A
Max current	<b>65 A</b>	<b>100 A</b>
Start current	40 mA	40 mA
<b>ACCURACY</b>		
Active energy (EN62053-21)	Class C (MID) 0,5%	Class C (MID) 0,5%
<b>METROLOGIC LED</b>		
Pulse number	1000 pulses/kWh	5000 pulses/kWh
Pulse duration	30ms	30ms
<b>TARIFF INPUT</b>		
Nominal Voltage	0 ... 230Vac	0 ... 230Vac
Max Voltage	265 Vac	265 Vac
<b>STATIC OUTPUTS</b>		
Output number	1	1
Pulse lenght	Programmable 30 ÷ 500 ms	Programmable 30 ÷ 500 ms
Max Voltage	15 Vdc	15 Vdc
Max Current	15 mA	15 mA
<b>RS485 SERIAL INTERFACE</b>		
Protocol	-	-
Baud-rate	-	-
<b>HOUSING</b>		
Version	6 modules (DIN 43880)	6 modules (DIN 43880)
Mechanical dimensions (mm)	105.4 x 96.2 x 65.86	105.4 x 96.2 x 65.86
Weight	520 g	460 g
Degree of protection	IP 51	IP 51
<b>AMBIENT OPERATING CONDITIONS</b>		
Mounting	Indoor use only	Indoor use only
Operating temperature	-25°C ... +55°C	-25°C ... +55°C
Storage temperature	-25°C ... +70°C	-25°C ... +70°C
Mechanical enviroment	Class M2	Class M2
Electromagnetic enviroment	Class E2	Class E2
Relative humidity	75%	75%
<b>CERTIFICATIONS AND COMPLIANCE</b>		
Reference standards	EN 50470-1, EN 50470-3	EN 50470-1, EN 50470-3

# DDH 5241-M | DDH 5261-M

ENERGY METER WITH DIRECT THREE-PHASE CONNECTION 3 WIRE - RS485 SERIAL INTERFACE



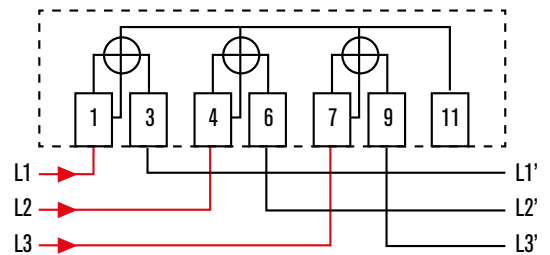
3 wires network (without neutral)

WIRING DIAGRAMS

TECHNICAL CHARACTERISTICS	DDH 5241-M	DDH 5261-M
<b>VOLTAGE INPUTS</b>		
Nominal voltage $U_s$	3 x 400 V or 3 x 230 V	3 x 400 V or 3 x 230 V
Operating voltage range	50/60 Hz	50/60 Hz
Power consumption	-	-
<b>CURRENT INPUTS</b>		
Connection type	Direct three-phase connection	Direct three-phase connection
Reference current	10 A	10 A
Max current	<b>65 A</b>	<b>100 A</b>
Start current	40 mA	40 mA
<b>ACCURACY</b>		
Active energy (EN62053-21)	Class C (MID) 0,5%	Class C (MID) 0,5%
<b>METROLOGIC LED</b>		
Pulse number	1000 pulses/kWh	5000 pulses/kWh
Pulse duration	30ms	30ms
<b>TARIFF INPUT</b>		
Nominal Voltage	0 ... 230Vac	0 ... 230Vac
Max Voltage	265 Vac	265 Vac
<b>STATIC OUTPUTS</b>		
Output number	1	1
Pulse length	Programmable 30 ÷ 500 ms	Programmable 30 ÷ 500 ms
Max Voltage	15 Vdc	15 Vdc
Max Current	15 mA	15 mA
<b>RS485 SERIAL INTERFACE</b>		
Protocol	Modbus RTU Modbus ASCII	Modbus RTU Modbus ASCII
Baud-rate	Programmable 300÷19200 bps	Programmable 300÷19200 bps
<b>HOUSING</b>		
Version	6 modules (DIN 43880)	6 modules (DIN 43880)
Mechanical dimensions (mm)	105.4 x 96.2 x 65.86	105.4 x 96.2 x 65.86
Weight	520 g	460 g
Degree of protection	IP 51	IP 51
<b>AMBIENT OPERATING CONDITIONS</b>		
Mounting	Indoor use only	Indoor use only
Operating temperature	-25°C ... +55°C	-25°C ... +55°C
Storage temperature	-25°C ... +70°C	-25°C ... +70°C
Mechanical environment	Class M2	Class M2
Electromagnetic environment	Class E2	Class E2
Relative humidity	75%	75%
<b>CERTIFICATIONS AND COMPLIANCE</b>		
Reference standards	EN 50470-1, EN 50470-3	EN 50470-1, EN 50470-3

# DDH 5341-M | DDH 5361-M

ENERGY METER WITH DIRECT THREE-PHASE CONNECTION 3 WIRE  
RS485 SERIAL INTERFACE - LOAD PROFILES



3 wires network (without neutral)

WIRING DIAGRAMS

TECHNICAL CHARACTERISTICS	DDH 5341-M	DDH 5361-M
<b>VOLTAGE INPUTS</b>		
Nominal voltage Us	3 x 400 V or 3 x 230 V	3 x 400 V or 3 x 230 V
Operating voltage range	50/60 Hz	50/60 Hz
Power consumption	-	-
<b>CURRENT INPUTS</b>		
Connection type	Direct three-phase connection	Direct three-phase connection
Reference current	10 A	10 A
Max current	<b>65 A</b>	<b>100 A</b>
Start current	40 mA	40 mA
<b>ACCURACY</b>		
Active energy (EN62053-21)	Class C (MID) 0,5%	Class C (MID) 0,5%
<b>METROLOGIC LED</b>		
Pulse number	1000 pulses/kWh	5000 pulses/kWh
Pulse duration	30ms	30ms
<b>TARIFF INPUT</b>		
Nominal Voltage	0 ... 230Vac	0 ... 230Vac
Max Voltage	265 Vac	265 Vac
<b>STATIC OUTPUTS</b>		
Output number	1	1
Pulse lenght	Programmable 30 ÷ 500 ms	Programmable 30 ÷ 500 ms
Max Voltage	15 Vdc	15 Vdc
Max Current	15 mA	15 mA
<b>RS485 SERIAL INTERFACE</b>		
Protocol	Modbus RTU Modbus ASCII	Modbus RTU Modbus ASCII
Baud-rate	Programmable 300÷19200 bps	Programmable 300÷19200 bps
<b>HOUSING</b>		
Version	6 modules (DIN 43880)	6 modules (DIN 43880)
Mechanical dimensions (mm)	105.4 x 96.2 x 65.86	105.4 x 96.2 x 65.86
Weight	520 g	460 g
Degree of protection	IP 51	IP 51
<b>AMBIENT OPERATING CONDITIONS</b>		
Mounting	Indoor use only	Indoor use only
Operating temperature	-25°C ... +55°C	-25°C ... +55°C
Storage temperature	-25°C ... +70°C	-25°C ... +70°C
Mechanical enviroment	Class M2	Class M2
Electromagnetic enviroment	Class E2	Class E2
Relative humidity	75%	75%
<b>CERTIFICATIONS AND COMPLIANCE</b>		
Reference standards	EN 50470-1, EN 50470-3	EN 50470-1, EN 50470-3