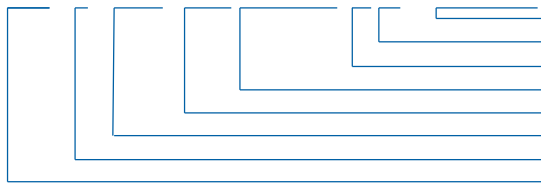


NMT PLUS (small pumps)



NMT (D) (SAN) PLUS (ER/PWM) xx/xx - 180/130



fitting length [mm]
 max head [m]
 connection size (DN) [mm]
 ER control (0-10V) or PWM
 model name
 bronze hydraulic casting
 twin pump
 type (new motor technology)

Electronically controlled wet running circulating pump

For all heating systems, air conditioning, closed cooling circuits and industrial systems, used in accordance with VDI 2035.

Product details

- ECM permanent magnet technology with energy efficiency
- proportional pressure control
- constant speed
- built-in electric protection
- easy installation and quiet operation
- automatic air venting
- quality and compact construction for durability

NMT PLUS ER

- communication with the control module, analog 0-10V

NMTD PLUS

- twin pump

NMT PLUS SAN

- bronzed body (for sanitary water)

NMT PLUS PWM

- solar profile
- heating profile

Technical specification

Q _{max}	up to 6 m ³ /h
H _{max}	up to 8 m
DN	15/20/25/32
Pipe connection	Rp 1/2 / Rp 3/4 / Rp 1 / Rp 1 1/4
Insulation class	F
Degree of protection	IP 44
Voltage	1 ~ 230V, 50 Hz

Minimum inlet pressure

0.05 bar <75 °C (fluid temperature)
 0.28 bar <90 °C (fluid temperature)

Simple control - all in one button:

button flashes - proportional mode
 briefly pressing for switching between curves, then holding approx 5s
 button light is on - constant mode
 briefly pressing for switching between curves



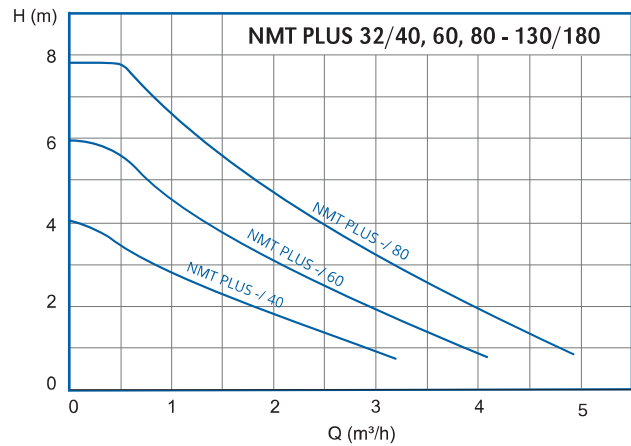
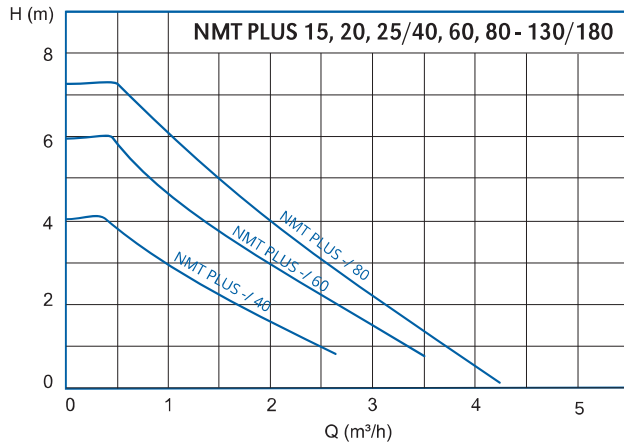
Material

Hydraulic casing	cast iron/bronze
Impeller	polyamid
Shaft	ceramics
Bearings	ceramics
Rotor can	stainless steel AISI 316

Permissible mediums

Water, mixed with glycol, parameters must be checked in the mixture of water with over 20% of glycol.
 Pure, non-explosive liquid media free of mineral oils and solid particles. Medium temperature from - 10 °C to + 110 °C, ambient temperature with max. surroundings temperature 40 °C.

Performance range



NMT PLUS

Code	Type	EEI	Fitting length [mm]	Pipe connection	Pmax [W]	Weight [kg]
979523951	NMT PLUS 15/40-130	0,17	130	Rp 1/2	20	2,0
979523841	NMT PLUS 20/40-130	0,16	130	Rp 3/4	20	2,1
979523842	NMT PLUS 25/40-130	0,16	130	Rp 1	20	2,2
979523843	NMT PLUS 15/60-130	0,19	130	Rp 1/2	35	2,0
979523844	NMT PLUS 20/60-130	0,18	130	Rp 3/4	35	2,1
979523845	NMT PLUS 25/60-130	0,18	130	Rp 1	35	2,2
979523846	NMT PLUS 15/80-130	0,20	130	Rp 1/2	55	2,0
979523847	NMT PLUS 20/80-130	0,20	130	Rp 3/4	55	2,1
979523848	NMT PLUS 25/80-130	0,20	130	Rp 1	55	2,2
979523849	NMT PLUS 20/40-180	0,16	180	Rp 3/4	20	2,3
979523850	NMT PLUS 25/40-180	0,16	180	Rp 1	20	2,4
979523851	NMT PLUS 32/40-180	0,17	180	Rp 1 1/4	20	2,5
979523852	NMT PLUS 20/60-180	0,18	180	Rp 3/4	35	2,3
979523853	NMT PLUS 25/60-180	0,18	180	Rp 1	35	2,4
979523854	NMT PLUS 32/60-180	0,19	180	Rp 1 1/4	35	2,5
979523855	NMT PLUS 20/80-180	0,20	180	Rp 3/4	55	2,3
979523856	NMT PLUS 25/80-180	0,20	180	Rp 1	55	2,4
979523857	NMT PLUS 32/80-180	0,20	180	Rp 1 1/4	55	2,5

NMTD PLUS - twin pump

Code	Type	EEI	Fitting length [mm]	Pipe connection	Pmax [W]	Weight [kg]
979523937	NMTD PLUS 25/40-180	0,17	180	Rp 1	2x20	4,9
979523938	NMTD PLUS 32/40-180	0,16	180	Rp 1 1/4	2x20	5,1
979523939	NMTD PLUS 25/60-180	0,19	180	Rp 1	2x35	4,9
979523940	NMTD PLUS 32/60-180	0,20	180	Rp 1 1/4	2x35	5,1
979523941	NMTD PLUS 25/80-180	0,23	180	Rp 1	2x55	4,9
979523942	NMTD PLUS 32/80-180	0,22	180	Rp 1 1/4	2x55	5,1

NMT PLUS ER - 0-10V analog input

Code	Type	EEI	Fitting length [mm]	Pipe connection	P _{max} [W]	Weight [kg]
979523870	NMT PLUS ER 15/40-130	0,17	130	Rp ½	20	2,0
979523871	NMT PLUS ER 20/40-130	0,16	130	Rp ¾	20	2,1
979523872	NMT PLUS ER 25/40-130	0,16	130	Rp 1	20	2,2
979523873	NMT PLUS ER 15/60-130	0,19	130	Rp ½	35	2,0
979523874	NMT PLUS ER 20/60-130	0,18	130	Rp ¾	35	2,1
979523875	NMT PLUS ER 25/60-130	0,18	130	Rp 1	35	2,2
979523876	NMT PLUS ER 15/80-130	0,20	130	Rp 1	55	2,0
979523877	NMT PLUS ER 20/80-130	0,20	130	Rp ¾	55	2,1
979523878	NMT PLUS ER 25/80-130	0,20	130	Rp 1	55	2,2
979523879	NMT PLUS ER 20/40-180	0,16	180	Rp ¾	20	2,3
979523880	NMT PLUS ER 25/40-180	0,16	180	Rp 1	20	2,4
979523881	NMT PLUS ER 32/40-180	0,17	180	Rp 1¼	20	2,5
979523882	NMT PLUS ER 20/60-180	0,18	180	Rp ¾	35	2,3
979523883	NMT PLUS ER 25/60-180	0,18	180	Rp 1	35	2,4
979523884	NMT PLUS ER 32/60-180	0,19	180	Rp 1¼	35	2,5
979523885	NMT PLUS ER 20/80-180	0,20	180	Rp ¾	55	2,3
979523886	NMT PLUS ER 25/80-180	0,20	180	Rp 1	55	2,4
979523887	NMT PLUS ER 32/80-180	0,20	180	Rp 1¼	55	2,5

NMT PLUS PWM SOLAR - digital input

Code	Type	EEI	Fitting length [mm]	Pipe connection	P _{max} [W]	Weight [kg]
979523891	NMT PLUS PWM S 15/40-130	0,17	130	Rp ½	20	2,0
979523893	NMT PLUS PWM S 20/40-130	0,16	130	Rp ¾	20	2,1
979523895	NMT PLUS PWM S 25/40-130	0,16	130	Rp 1	20	2,2
979523897	NMT PLUS PWM S 15/60-130	0,19	130	Rp ½	35	2,0
979523899	NMT PLUS PWM S 20/60-130	0,18	130	Rp ¾	35	2,1
979523901	NMT PLUS PWM S 25/60-130	0,18	130	Rp 1	35	2,2
979523903	NMT PLUS PWM S 15/80-130	0,20	130	Rp 1	55	2,0
979523905	NMT PLUS PWM S 20/80-130	0,20	130	Rp ¾	55	2,1
979523907	NMT PLUS PWM S 25/80-130	0,20	130	Rp 1	55	2,2
979523909	NMT PLUS PWM S 20/40-180	0,16	180	Rp ¾	20	2,3
979523911	NMT PLUS PWM S 25/40-180	0,16	180	Rp 1	20	2,4
979523913	NMT PLUS PWM S 32/40-180	0,17	180	Rp 1¼	20	2,5
979523915	NMT PLUS PWM S 20/60-180	0,18	180	Rp ¾	35	2,3
979523917	NMT PLUS PWM S 25/60-180	0,18	180	Rp 1	35	2,4
979523919	NMT PLUS PWM S 32/60-180	0,19	180	Rp 1¼	35	2,5
979523921	NMT PLUS PWM S 20/80-180	0,20	180	Rp ¾	55	2,3
979523923	NMT PLUS PWM S 25/80-180	0,20	180	Rp 1	55	2,4
979523925	NMT PLUS PWM S 32/80-180	0,20	180	Rp 1¼	55	2,5

NMT PLUS PWM HEATING - digital input

Code	Type	EEl	Fitting length [mm]	Pipe connection	P _{max} [W]	Weight [kg]
979523890	NMT PLUS PWM H 15/40-130	0,17	130	Rp ½	20	2,0
979523892	NMT PLUS PWM H 20/40-130	0,16	130	Rp ¾	20	2,1
979523894	NMT PLUS PWM H 25/40-130	0,16	130	Rp 1	20	2,2
979523896	NMT PLUS PWM H 15/60-130	0,19	130	Rp ½	35	2,0
979523898	NMT PLUS PWM H 20/60-130	0,18	130	Rp ¾	35	2,1
979523900	NMT PLUS PWM H 25/60-130	0,18	130	Rp 1	35	2,2
979523902	NMT PLUS PWM H 15/80-130	0,20	130	Rp ½	55	2,0
979523904	NMT PLUS PWM H 20/80-130	0,20	130	Rp ¾	55	2,1
979523906	NMT PLUS PWM H 25/80-130	0,20	130	Rp 1	55	2,2
979523908	NMT PLUS PWM H 20/40-180	0,16	180	Rp ¾	20	2,3
979523910	NMT PLUS PWM H 25/40-180	0,16	180	Rp 1	20	2,4
979523912	NMT PLUS PWM H 32/40-180	0,17	180	Rp 1¼	20	2,5
979523914	NMT PLUS PWM H 20/60-180	0,18	180	Rp ¾	35	2,3
979523916	NMT PLUS PWM H 25/60-180	0,18	180	Rp 1	35	2,4
979523918	NMT PLUS PWM H 32/60-180	0,19	180	Rp 1¼	35	2,5
979523920	NMT PLUS PWM H 20/80-180	0,20	180	Rp ¾	55	2,3
979523922	NMT PLUS PWM H 25/80-180	0,20	180	Rp 1	55	2,4
979523924	NMT PLUS PWM H 32/80-180	0,20	180	Rp 1¼	55	2,5

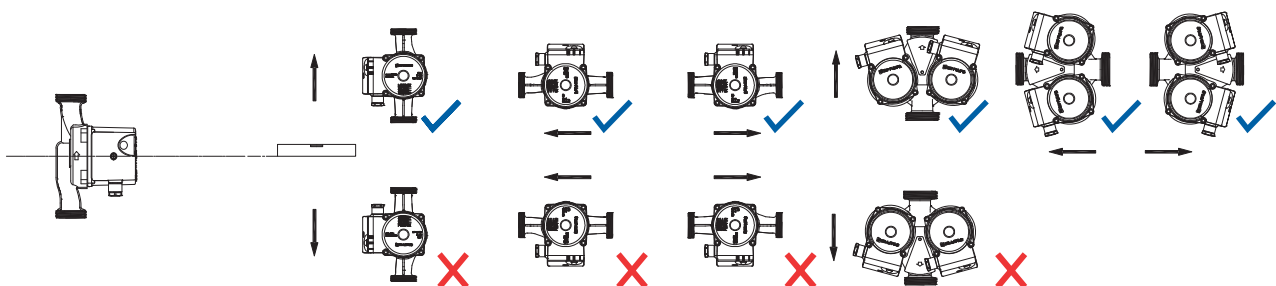
NMT SAN PLUS - for sanitary hot water systems

Code	Type	EEl	Fitting length [mm]	Pipe connection	P _{max} [W]	Weight [kg]
979523931	NMT SAN PLUS 20/40-130	0,15	130	Rp ¾	20	2,25
979523932	NMT SAN PLUS 25/40-130	0,15	130	Rp 1	20	2,25
979523933	NMT SAN PLUS 20/60-130	0,17	130	Rp ¾	35	2,25
979523934	NMT SAN PLUS 25/60-130	0,17	130	Rp 1	35	2,25
979523935	NMT SAN PLUS 20/80-130	0,19	130	Rp ¾	55	2,25
979523936	NMT SAN PLUS 25/80-130	0,19	130	Rp 1	55	2,25

Installation

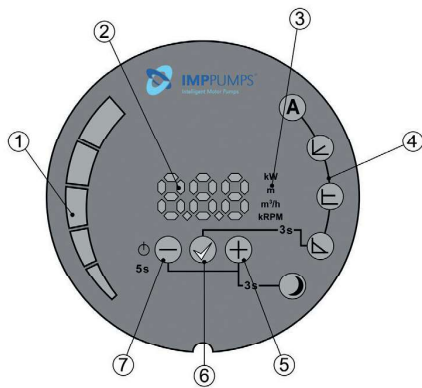
After installing the pump, the motor shaft have to remain in horizontal position.

NMT(D) (SAN) PLUS (ER/PWM)



DISPLAY OPERATION (NMT SMART, NMT MAX, NMT LAN)

With the use of the display panel, you can control and overview pump modes, on/off control, pump parameters and errors.



1. Bar graph display of pump parameters
2. Numeric display of values
3. Display of selected parameter
4. Display of selected mode
5. Selection key
6. Confirmation key
7. Selection key

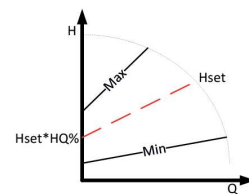
The pump can operate in 5 different modes. We can set the pump in the most appropriate mode, depending on the system where the pump operates.

A Automatic mode

In automatic mode the pump automatically sets the operating pressure, depending on the hydraulic system. By doing so, the pump finds the optimal operating position. This mode is recommended in most systems.

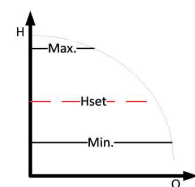
L Proportional pressure

The pump maintains the pressure with relation to the current flow. The pressure is equal to the set pressure (Hset on the drawing) at maximum power; at 0 flow it is equal to HQ % (default 50%, HQ % can be set on the pump webpage) of the set pressure. In between, the pressure changes linearly, relative to the flow. In regulated mode we can only set the pump pressure (Hset on the drawing).



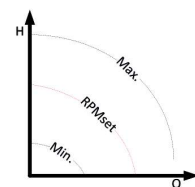
E Constant pressure

The pump maintains the currently set pressure (Hset on the drawing), from 0 flow to maximum power, where the pressure begins to drop. At constant pressure, we can only set the pressure (Hset on the drawing) which the pump will maintain.



B Constant speed

The pump operates with the currently set speed (RPMset on the drawing). In the unregulated mode, we can only set the speed at which the pump will operate.



M Night mode

Night mode can be activated in combination with any of the operating modes listed above, and allows the circulator to operate at a minimum curve (therefore with very low consumption) when it detects a decrease in liquid temperature of 15-20 °C. When temperature rises, it automatically returns to normal operating curve (according to the selected mode).

Communication module



NMTC module can be optionally connected to:

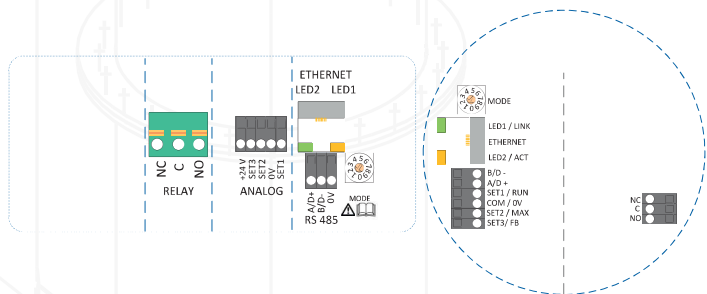
- NMT SMART
- NMT MAX

NMTC module can be attached to the pump:

1. At the purchase (different code of the pump):
 - NMT SMART C
 - NMT MAX C
 - MMT LAN C
2. Later after the pump is already running:
 - NMT SMART → NMT SMART C
 - NMT MAX → NMT MAX C

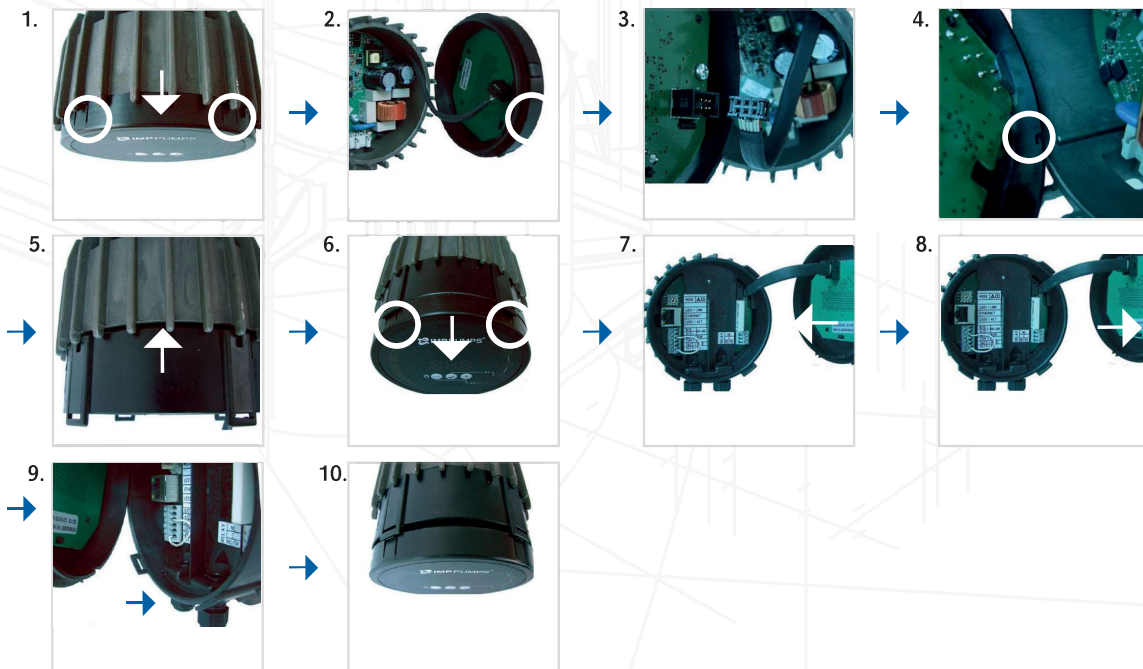
This module is used for various remote control applications, including:

- REMOTE ON/OFF
- ANALOG 0-10V VOLTAGE CONTROL
- MODBUS REMOTE CONTROL
- STATUS RELAY FEEDBACK
- WEB ACCESS OVER ETHERNET



EASY 10 STEP INSTALATION:

- You can attach the C MODULE, even after the pump is already installed and running.
- For the installation you need only 2.4 mm wide flat-bladed screwdriver (more in the photos below).



Code	Type
979523376	Communication Module NMTC for Smart and MAX series
979524505	2 x Interconnected Communication Modules for NMTD Smart and MAX