

MECR3100 – Digital Snow Plow Controller



- 5-inch high resolution capacitive touch screen
- 4-way control with joystick
- ON/OFF control for up to 10 hydraulic solenoid coils
- Float and relief modes
- Reverse polarity and overcurrent/voltage protection
- 2 sensor inputs

1. Description

MECR3100, provides stable control on snow plow with its 5-inch high resolution capacitive touch screen, 4-way joystick, ON/OFF control for up to 10 hydraulic solenoid coils, float and relief modes and two sensor inputs. Protected against reverse polarity and overcurrent/voltage, MECR1090 operates between 10-30V DC.

2. Area of use

- Snow plow
- Street cleaning trucks

3. Technical data

	Unit	Description, value
Supply voltage	V DC	10-30
Dimensions	mm	220 x 190 x 120
Connection type		24-pin connector, Power cable gland
Protection class		IP 51
Outputs	A	Solenoid coils (ON/OFF): 10 x 2,5 (max.)

4. Functions



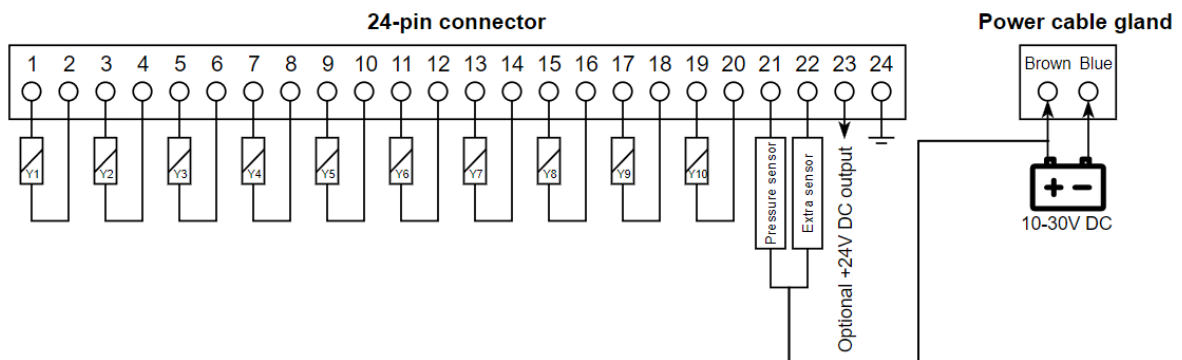
1	Float mode ON/OFF
2	Pressure level indicator
3	Relief mode ON/OFF
4	Water pump ON/OFF (Optional)
5	Salt spreader hydraulic pressure ON/OFF (Optional)
6	Power ON/OFF
7	Joystick

5. Connections

- 24-pin connector

Pin Number	Connection	Pin Number	Connection
1	Y1 (Plow left)	13	Y7 (Pressure)
2	Y1 (Plow left)	14	Y7 (Pressure)
3	Y2 (Plow right)	15	Y8
4	Y2 (Plow right)	16	Y8
5	Y3 (Plow up)	17	Y9
6	Y3 (Plow up)	18	Y9
7	Y4 (Plow down)	19	Y10
8	Y4 (Plow down)	20	Y10
9	Y5 (Float mode)	21	Pressure sensor
10	Y5 (Float mode)	22	Extra sensor
11	Y6 (Relief mode)	23	Optional +24V DC output
12	Y6 (Relief mode)	24	Optional GND

- **Power cable connection:** Brown: Main Vcc(+), Blue: Main GND(-)
- **Wiring diagram**



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