UNITY
GRUP TEKNOLOJİ A.Ş.

UMF48 MANUAL BRAKE CARD DEVICE

USER MANUAL

2024

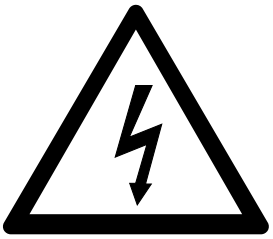
VER.2/22.02.2023

CONTENTS

SECURITY MEASURES

1-) Product selection suitable for a healthy and safe working environment should be made and the device should be used in accordance with the instructions.

2-) Necessary checks, maintenance and cleaning of the device must be carried out before production. However, electrical repairs should not be made under voltage.



3-) Any electrical device should not be touched or repaired with wet hands.

4-) The operator should be informed about the operation of the device and only the people under his/her responsibility should deal with the device.

SECURITY MEASURES

5-) Attention should be paid to the lighting of the environment according to the environment of the device.

6-) Employees must be required to comply with the safety measures and signs in the environment.

7-) Electrical devices and machines must have a protection type appropriate to the environment they are operated in. They must be isolated against factors such as moisture, steam, oil, dust, and heat.

8-) At the end of the day, the device must be turned off and made safe after use.

SAFE USE WARNINGS

- Before performing any operation on the device, disconnect all supply voltages.
- Do not disassemble the device while it is energized.
- Do not clean the device with solvents or similar substances. Use only a dry cloth to clean the device.
- Before operating the device, check that the connections are correct. Keep signal cables away from contactors, inductive loads, electrical noise emitting devices and energy-carrying lines.
- In order to prevent the device from being affected by adverse environmental conditions such as humidity, vibration, pollution and high/low temperature, install it away from contactors, electrical noise emitting devices and energy-carrying lines.
- To be minimally affected by electrical noise; Use shielded cables and ground the shield.
- In case of any problem with your device, contact our authorized dealer.
- The manufacturer cannot be held responsible in any way for any undesirable situations that may arise as a result of not implementing the above precautions.

OVERVIEW

Unity UMF48 manual brake controller has been developed for use in industrial automation applications. The mounting type is panel type and the box dimensions are 76X92X43. There are 4 start/stop, menu, up and down buttons on the front panel of the device. Thanks to its understandable interface, the desired functions can be monitored with a 2x8 LCD screen. The product provides brake output control between 0-24 volts. The 0-24 VDC brake output of the device can be adjusted with the 0-10 volt input on the terminal or the direction keys on the panel. While the 0-10 volt analog input can be controlled with a PLC or potentiometer, the digital input is controlled via the panel.

GENERAL AND TECHNICAL SPECIFICATIONS

POWER:	24 VDC
BRAKE OUTPUT:	1 X 0-24 VOLT PWM
ANALOG VOLT INPUT:	1 X 0-10 VOLT
PROTECTION CLASS:	IP 20
SCREEN:	2 x 8 LCD
ANALOG INPUT RESOLUTION:	10 BİT
BRAKE OUTPUT RESOLUTION:	10 BİT
MOUNTING TYPE:	PANEL TYPE
ANALOG INPUT:	PLC AND POTENTIOMETER
DIGITAL INPUT:	ON THE PANEL
24 VOLT PNP INPUT:	1 X START/STOP
TEMPERATURE RANGE	0-50°

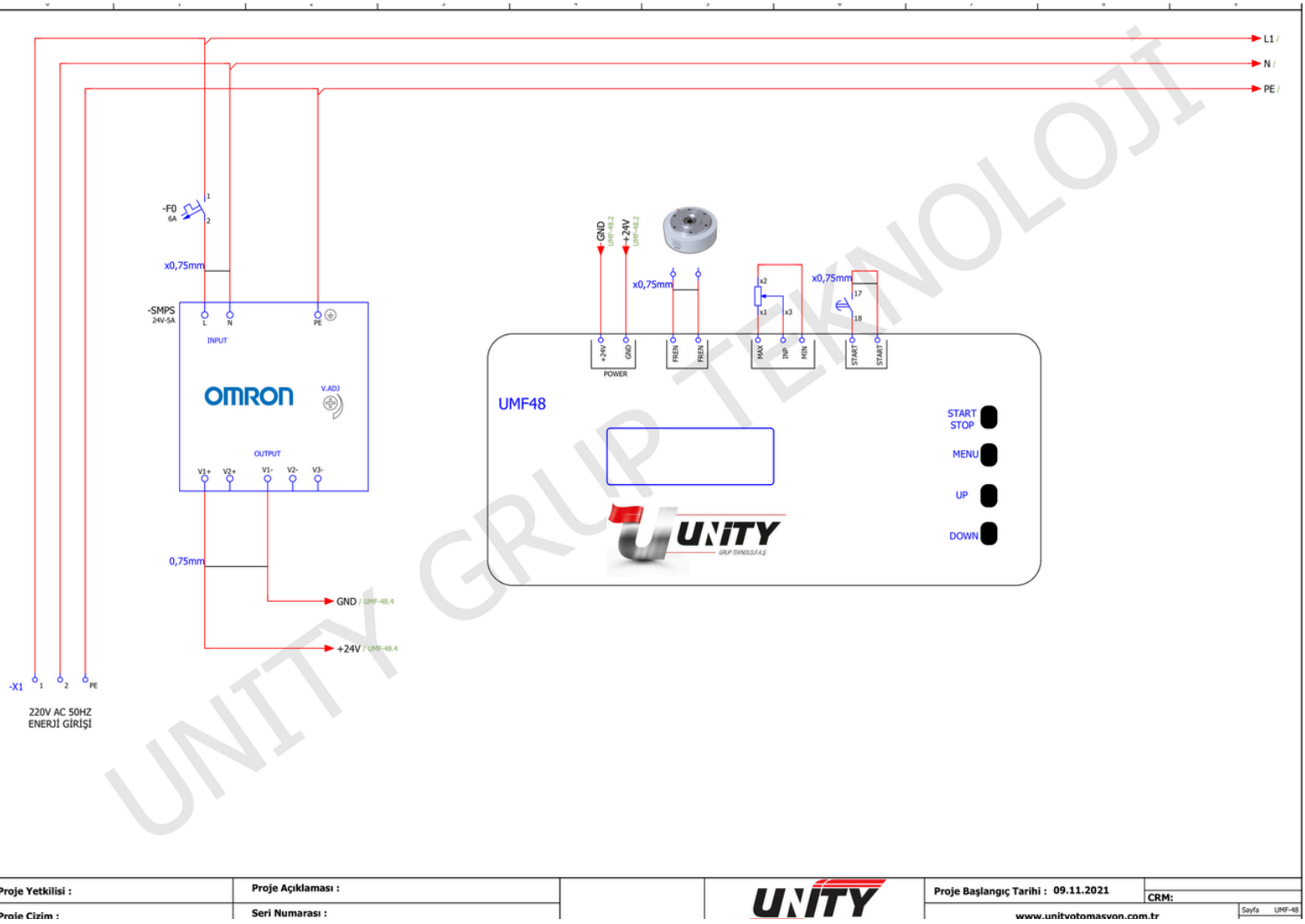
WHERE IS IT USED?

- Sarıcı ve çözücü malzeme akışını kontrol etmek için kullanılır.
- PLC veya benzeri endüstriyel kontrol cihazları kontrol için kullanılır.
- Hijyen sektöründe ürünün dolum kontrolü.

AREAS OF APPLICATION

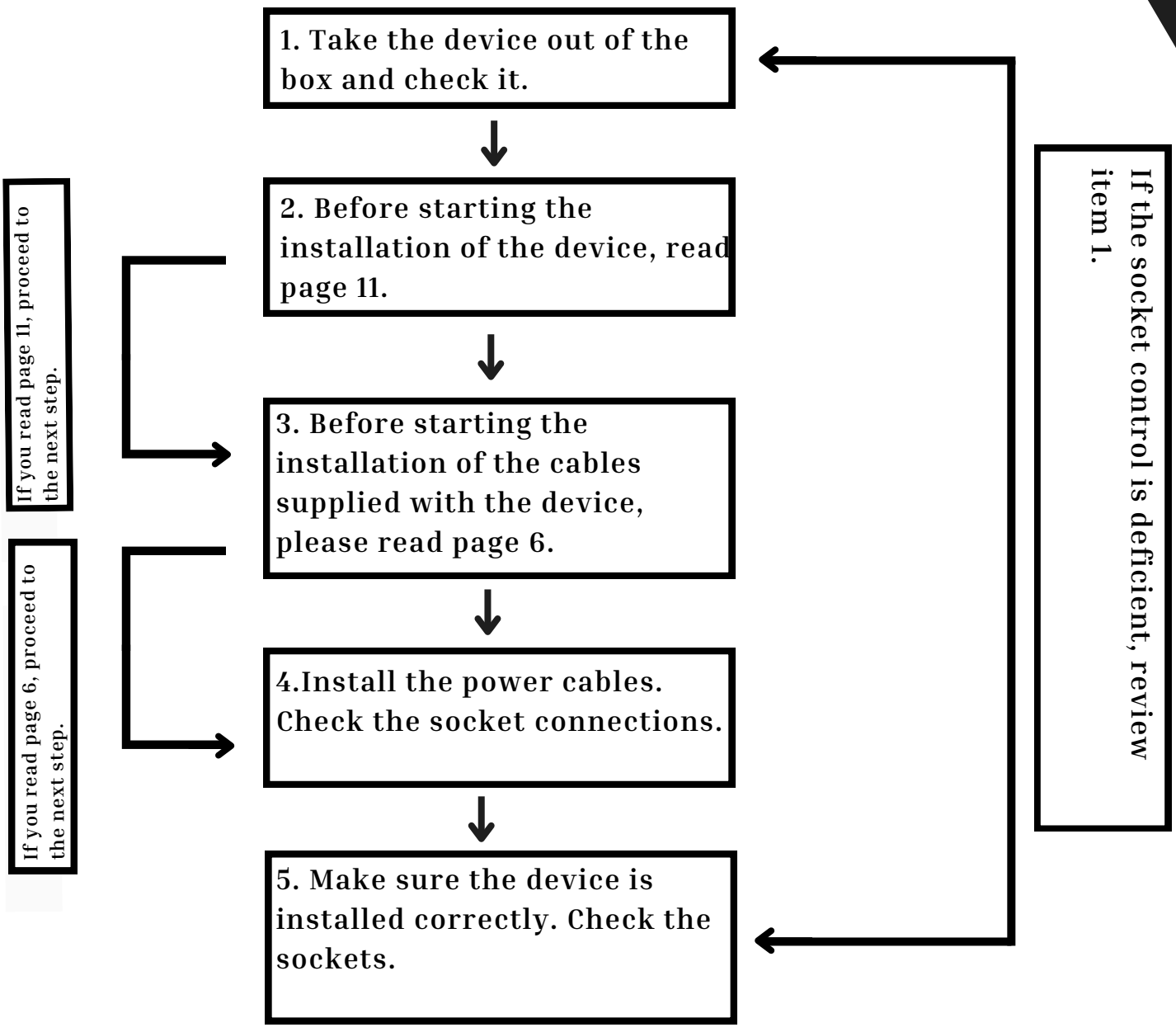
- Process automation.
- Winder - Unwinder.
- Printing.
- Plastic packaging and label industry.
- Production and technological lines.
- Tension control devices.

CONNECTION DIAGRAM

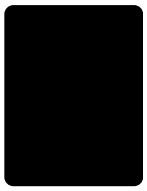


Proje Yetkilisi :	Proje Açıklaması :		UNITY	Proje Başlangıç Tarihi : 09.11.2021	CRM:
Proje Cizim :	Seri Numarası :			www.unityotomasyon.com.tr	Sayfa UMF-48

FLOW DIAGRAM



KEY USER GUIDE



START / STOP

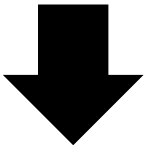
SThe Start/Stop button enables the output connected to the brake to be operated. Pressing the same button again cuts the power to the output connected to the brake.

MENU

The Menu key allows you to navigate between parameters and also performs the confirmation process.

UP

It is the key that enables the upward movement while navigating between parameters and increasing the set value when outside the parameter.



DOWN

This is the key that allows you to move down while browsing through the parameters and to decrease the set value when outside the parameter.

DEVICE PARAMETERS

1-) Start Stop Control position is determined. Start Stop control can be selected from the terminal and the panel. The selection to be made from the panel is provided with the START and STOP keys on the device. The selection to be made from the terminal performs the START INP. START and STOP operation on the rear terminal.

2-) The FACTORY SETTINGS parameter is confirmed with the MENU button and the device is returned to factory settings.

3-) SET1 parameter is selected with the MENU button. Set values are adjusted with the UP and DOWN buttons. The set value received from the terminal introduces the externally applied Analog signal to the device as MIN and MAX

4-) MENU button to select ANL.ÇIK parameter. It is used to invert the brake value in 0-24V or 24-0V output.

5-) ARTN.DEG parameter is selected with the MENU button. The increasing value is used when the Ramp speed is entered. It intervenes in the output according to the percentage determined in the increasing value, in proportion to the time determined in the ramp speed.

DEVICE PARAMETERS

6-) RAMP.SPEED parameter is confirmed with MENU button. Ramp speed is used with Increasing Value. A period between 0-10 seconds is determined and the process is completed within this period.

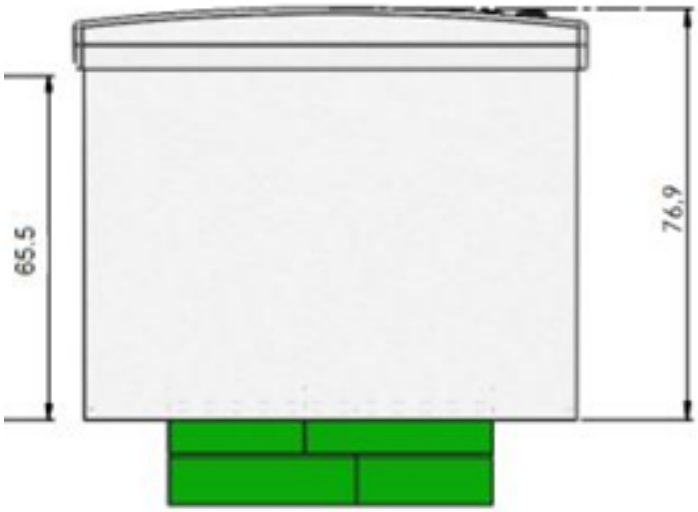
7-) The STP.GER. parameter is selected with the MENU button. The output value that the device gives out at the stop moment is adjusted as a percentage.

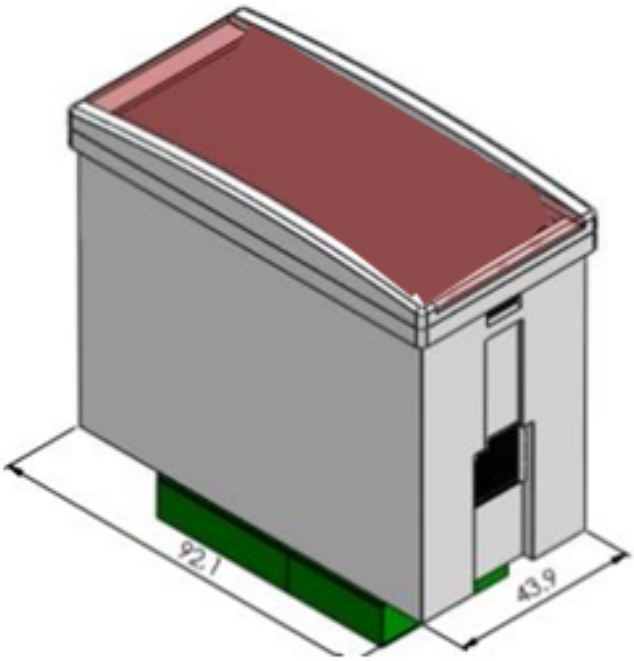
8-) MAX.VOLT. parameter is selected with the MENU button. Maximum voltage determines the maximum output level of the device in start position, the output value cannot exceed the value specified here.

9-) The MIN.VOLT. parameter is selected with the MENU button. The minimum voltage determines the minimum output level of the device in the start position, the output value cannot fall below the value specified here.

10-) SET SET parameter is selected with the MENU button. Set Setting Control offers two options as FROM THE TERMINAL and FROM THE PANEL.

TECHNICAL DRAWING





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