

# DMA-20

CAN Touch Display  
TFT Color 2.4"  
Panel Mount

<b>TFT</b> 2.4" Color	<b>CAN</b> 2.0A/B	<b>IP65</b> SPLASH PROOF	<b>PANEL</b> MOUNT
<b>miCon-L</b>	<b>OPEN SOURCE</b>	<b>USB</b>	<b>BUZZER</b>
<b>ARM®</b> CORTEX®	<b>7..32V=</b>	<b>°C</b> -20/+50	<b>SHOCK PROOF</b>



## FEATURES

- Universal CAN Display
- Color Touch TFT 2.4" 240x320p
- LED Backlight
- Design Template Selection via CAN
- No Programming necessary
- Open Source Programming Option
- Customized Templates via USB
- Compatible with all CAN Mini-PLCs
- Backside Mini-PLC Mounting Plate
- Front IP65 Protection Grade
- Panel-Mount without visible Screws
- Panel Cut-Out (LxW): 106 x 78 mm
- Dimensions (LxW): 115 x 85 mm
- Operating Voltage 7 to 32 VDC
- Engineered and manufactured in Germany

## APPLICATIONS

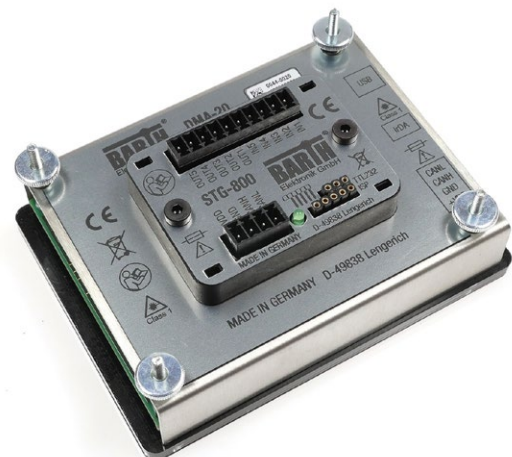
- Industrial and Building Automation
- Automotive and Maritime Technology
- Technical Education / University
- Test System Control

## DESCRIPTION

The splashproof 2.4" CAN Display DMA-20 allows connection to any Mini-PLC which supports a CAN interface. It's bright 240 x 320 pixel TFT display integrates resistive touch technology.

Both display design and menu can be selected out of a variety of templates with one single CAN message. This feature ensures that no display programming is necessary. The DMA-20 can be fully integrated within the graphical miCon-L Software Suite supporting any BARTH® Mini-PLC with CAN interface. With the Open Source Programming option the DMA-20 can be easily user-customized within the powerful KEIL® µVision® Software Suite.

The DMA-20 is also available as customer-tailored OEM version within 8 weeks.

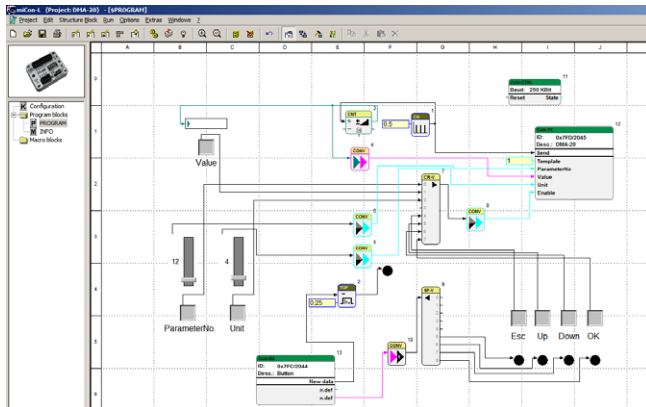


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## PROGRAMMING WITH MICON-L

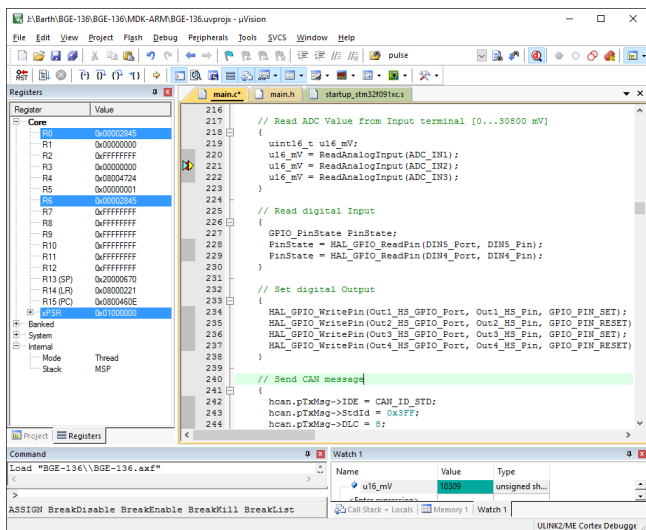
Without learning a difficult programming language the DMA-20 can be easily controlled using vivid CAN function blocks.

The miCon-L software suite features programming, simulation and test in one unique software design tool. The flexible CAN programming option offers a variety of possibilities in industrial, automotive and maritime applications. CAN programming has never been easier!



## OPEN SOURCE C-PROGRAMMING

The DMA-20 can also be programmed as Open Source display using the powerful KEIL® µVision® Software Suite. For everyone who is familiar with C-Programming this option opens up a variety of hardware-oriented features in a realtime environment with powerful debugging features.



## SPECIFICATIONS

<b>Operation Voltage</b>	7 to 32 VDC
<b>Current Consumption</b>	100 mA @ 12 VDC 55 mA @ 24 VDC 45 mA @ 32 VDC
<b>Fusing</b>	1 A max. (external)
<b>Interfaces</b>	CAN 2.0A/B (miCon-L/Open Source) 50, 100, 125, 250, 500 kbit, 1Mbit CANopen®, SAE J1939 (OS) NMEA 2000 (OS)  USB 1.0, 2.0, 3.0
<b>Memory</b>	5Mb Flash, 196k RAM
<b>Security Features</b>	System and independent watchdog Fail safe oscillator Power on/down reset Supply voltage supervisor
<b>Conformity</b>	2004/108/EG, 2004/108/EC 2014/30/EU
<b>Electrical Connection</b>	pluggable spring terminal connectors 0.25 to 1.5 mm <sup>2</sup>
<b>Operation Temp.</b>	-20 to +50 °C (IEC 60068-2-1/2)
<b>Storage Temp.</b>	-30 to +60 °C (IEC 60068-2-1/2)
<b>Shock Resistance</b>	min. 50 m/s <sup>2</sup> (5G)
<b>Vibration Resistance</b>	min. 10 m/s <sup>2</sup> (1G) @ 10 to 100 Hz
<b>Protection Grade</b>	Front panel: IP 65 (with optional gasket SEA-23)
<b>Housing Material</b>	Panel: PMMA Cover: stainless steel V2A 1.4301
<b>Weight</b>	200 g
<b>Dimensions</b>	115 x 85 x 41 mm (LxWxH) Panel cut-out: 106 x 78 mm
<b>Ordering Information CAN Display</b>	CAN Touch Display DMA-20 Art. No. 0044-0020 GTIN 4251329401290
<b>Ordering Information Accessory</b>	Connection Cable VK-35 for Open Source programming Art. No. 0091-0035 GTIN 4251329401276  Programmer ST-Link/V2 ISOL for Open Source programming Art. No. 0017-0066 GTIN 4251329401269  Gasket SEA-23 for DMA-20 Art. No. 0522-0023 GTIN 4251329401344  Mini-PLC STG-800 Art. No. 0850-0800 GTIN 4251329401207

## DOCUMENTS, VIDEOS & SOFTWARE

[www.barth-elektronik.de](http://www.barth-elektronik.de)

[www.micon-l.de](http://www.micon-l.de)

[www2.keil.com/stmicroelectronics-stm32/mdk](http://www2.keil.com/stmicroelectronics-stm32/mdk)