

BARTH® mini-PLCs
high performance at credit card size





About BARTH® Elektronik



BARTH® is a leading company with emphasis on cutting-edge PLC technology.

The company develops and manufactures innovative Programmable Logic Controllers (PLC) which are suitable many applications in industrial and building automation, as well as automotive, maritime or environmental technology.

An overview of BARTH® mini-PLCs

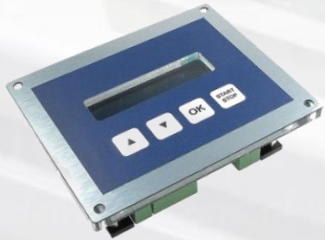
programmed with miCon-L free graphical software



Mini-PLCs with 10 I/Os – with or without CAN interface.
Also available as handy starter-kits.



Mini-PLCs with 20 I/Os – with or without CAN interface.
Also available as handy starter-kits.



Mini-PLC with 19 I/Os – with splashproof front panel and
free programmable LCD

An overview of BARTH® mini-PLCs

open source hardware



Mini-PLC with 10 I/Os – with high power output for AC loads and internal temperature sensor for HVAC applications



Mini-PLCs with 20 I/Os – provides a freely programmable LCD with LED backlight.










Mini-PLC with 21 I/Os – in splashproof housing for outdoor applications.

STG-500 and STG-550

- 3 analog Inputs 0 to 30 VDC
- 2 digital Inputs up to 10 kHz
- 4 Power Outputs up to 1.5 A
- 1 Power PWM Output 2 A/1 to 5 kHz
- 1 CAN Interface (only STG-550)
- Reliable Solid-State Outputs
- Programmable Status LED
- TTL-232/USB Connection to PC
- Intuitive graphical Programming Capability
- Wide Operating Voltage Range 7 to 32 VDC
- Wide Operating Temp. Range -40 to +70°C
- Vibration resistant and rugged Sealing
- Very low Current Consumption
- Universal Aluminium Mounting Plate



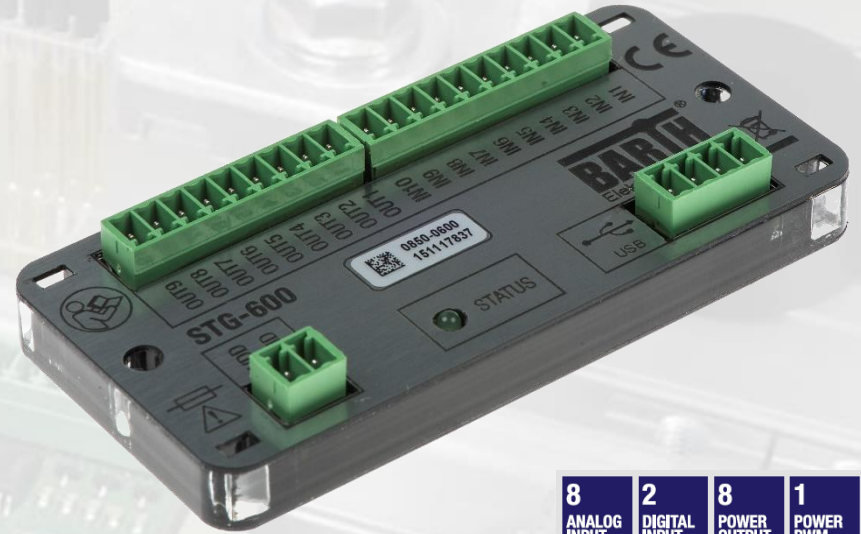
3 ANALOG INPUT	2 DIGITAL INPUT	4 POWER OUTPUT	1 POWER PWM
CAN BUS	 TTL-232	 SOLID STATE	 STATUS LED
 miCon-L	 7..32V=	 -40/+70	 SHOCK PROOF

Also available as handy starter-kits STA-500 and STA-550



STG-600 and STG-650

- 8 analog Inputs 0 to 30 VDC
- 2 digital Inputs up to 10 kHz
- 8 Power Outputs up to 1.5 A
- 1 Power PWM Output 2 A/0 to 10 kHz
- 1 CAN Interface (only STG-650)
- Reliable Solid-State Outputs
- Programmable Status LED
- TTL-232/USB Connection to PC
- Intuitive graphical Programming Capability
- Wide Operating Voltage Range 7 to 32 VDC
- Wide Operating Temp. Range -40 to +60°C
- Ultraflat Housing, Height 10 mm
- Vibration resistant and rugged Sealing
- Very low Current Consumption



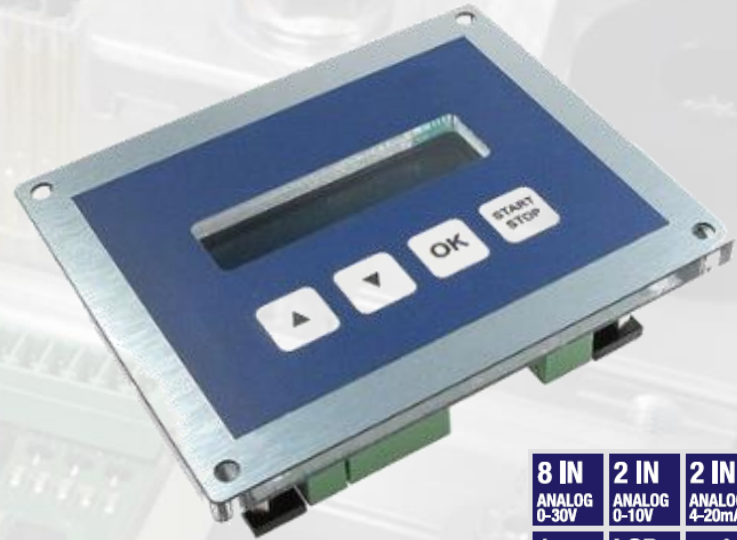
8 ANALOG INPUT	2 DIGITAL INPUT	8 POWER OUTPUT	1 POWER PWM
CAN BUS	TTL-232	SOLID STATE	miCon-L
7..32V=	-40/+60	ULTRA FLAT	SHOCK PROOF





Also available as handy starter-kits STA-600 and STA-650

STG-115

- **Splashproof Front Panel**
- **8 analog Inputs 0 to 30 VDC**
- **2 analog Inputs 0 to 10 VDC / 4 to 20 mA**
- **8 Power Outputs up to 1.5 A**
- **1 Relay Output 1A/30V**
- **Backlid LCD 2x16 Characters**
- **Intuitive graphical Programming Capability**
- **Freely programmable LCD**
- **Programmable Keypad (4 Keys)**
- **USB Interface**
- **Plugable Spring Terminal Connectors**
- **Wide Operating Voltage Range 16 to 32 VDC**
- **Wide Operating Temp. Range -20 to +55°C**



8 IN ANALOG 0-30V	2 IN ANALOG 0-10V	2 IN ANALOG 4-20mA	8 POWER OUTPUT
1 RELAY OUTPUT	LCD 2x16 CHAR	 USB	 miCon-L
PANEL MOUNT	 16-32V=	 -10/+55	IP65 SPLASH PROOF

Featuring an integrated backlid LCD in a rugged panel housing

- Freely programmable 1kW Power Mini-PLC
- High Power Output for AC Loads
- 4A continuous Operation
- Operating Voltage Range 100 to 240 V/50/60Hz
- Suitable for inductive and resistive Loads
- Ideal Driver for Heating Elements, Fans etc.
- Easy Setup for Temperature Regulating Applications
- 0 to 10V Interface
- 2 freely programmable Inputs
- AC Voltage Monitor
- Internal Temperature Monitoring
- Programmable Status-LED
- PC-Connection and Diagnosis via 'STG-connect'
- Vibration resistant and waterproof Sealing
- Wide Temperature Range -40 to +60 °C
- With Aluminium Mounting Plate
- Dimensions (LxWxH): 40 x 40 x 22 mm



The STG-65 can be used as an direct AC-driver for heaters, fans etc.

- Wide Supply Voltage Range 7 to 32 VDC
- 8 Analog/Digital Inputs 0 to 30 VDC
- Analog/Digital Converter with 10 Bit Resolution
- 8 Solid-State Outputs, 1.5 A each
- 2 PWM Outputs up to 32 kHz
- 2 Frequency Counter Inputs up to 65 kHz
- I2C Connection and SPI Connection
- Internal Voltage Monitoring
- LCD 2×16 Characters with blue Backlight
- Backlight controlled by Software
- Freely programmable LCD
- Programming in BASIC, C or Assembler
- EEPROM Memory Data Retention >40 Years
- Fully ESD and EMV tested Design
- Easy Connection provided by Spring Terminals
- Wide Operating Temperature Range -10 to +55°C
- Front Protection Class IP40
- Open Hardware Concept
- Measurements (LxHxD): 145 × 75 × 34 mm



STG-100

- Wide Supply Voltage Range 7 to 32 VDC
- 8 Analog/Digital Inputs 0 to 30 VDC
- Analog/Digital Converter with 10 Bit Resolution
- 8 Overload Protected Outputs (1.5 A each)
- Hardware Real Time Clock (RTC)
- 3 PWM Outputs up to 32 kHz
- 2 Frequency Counter Inputs up to 65 kHz
- I2C Connection and SPI Connection
- Internal Voltage Monitoring
- LCD 2x16 Characters with blue Backlight
- Backlight controlled by Software
- Freely programmable LCD
- Programming in BASIC, C or Assembler
- EEPROM Memory Data Retention >40 Years
- Fully ESD and EMV tested Design
- Easy Connection provided by Spring Terminals
- Wide Operating Temperature Range -10 to +55°C
- Durable panel mount Enclosure with protection class IP65
- Open Hardware Concept
- Measurements (LxHxD): 100 x 80 x 57 mm



The STG-100 is the outdoor model of the BARTH[®] mini-PLC series

RS-Components provides exclusive
access to BARTH[®] mini-PLCs around
the globe

Go RS Online to find our more

