

FEATURES

- Tiny CAN Logic Stepper Motor Controller
- 2 analog Inputs 0 to 30 VDC, 12 bit ADC
- 2 digital Inputs up to 1 kHz
- 4 Power Outputs up to 1.5 A
- Power Stepper Motor Output 1.5 A
- 1 CAN 2.0A/B Interface
- Reliable Solid-State Outputs
- Fail Safe Oscillator
- Programmable Status LED
- TTL-232/USB Connection to PC
- Intuitive graphical Programming Capability
- Wide Operating Voltage Range 78to 32 VDC
- Wide Operating Temp. Range -40 to +50°C
- Vibration resistant and rugged Sealing
- Aluminium Diecast Housing IP66
- Engineered and manufactured in Germany

APPLICATIONS

- Industrial Automation
- Building Automation
- Automotive Technology
- Process Control

DESCRIPTION

The brandnew STG-700 integrates a powerful stepper motor controller with an ultrcompact Mini-PLC in a spashproof aluminium diecast housing.

The graphical programming capability, universal I/Os and a CAN interface open up a variety of industrial and also battery-powered 12/24V applications.

For example, the STG-700 is able to control a large format display using a bipolar stepper motor converting an analog or digital input signal to a corresponding motor angle.

Also x-by-wire systems can be realized using the STG-700 as both control and power unit.

As the STG-700 is fully integrated in a splasproof aluminium diecast housing, additional housings will be not necessary. This fact makes the Mini-PLC ideal for applications within harsh environment.

The STG-700 is also available as customer-tailored OEM version.

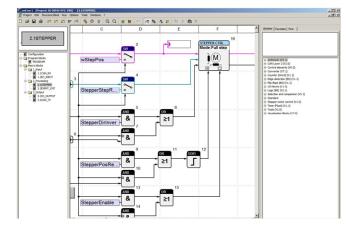


STG-700

PROGRAMMING WITH MICON-L

Without learning a difficult programming language the Mini-PLC can be easily programmed using simple and vivid graphical function blocks. This block design meets graphical standards of the latest graphical programming languages.

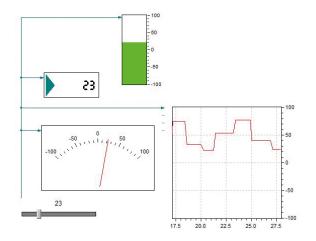
The miCon-L software suite features programming, simulation and test in one unique software design tool. The flexible programming option offers a variety of possibilities in industrial, automotive and maritime applications.



Programming the STG-700 follows using the USB port of your PC with installed miCon-L software suite and the VK-16 USB Connection Cable.

The miCon-L Software supports full simulation and visualisation operation modes.

miCon-L provides a variety of visualisation blocks and interactive elements to control and debug the Mini-PLC.



SPECIFICATIONS

Operation Voltage	8 to 32 VDC
Current Consumption	5.6 A max.
Fusing	6 A max. (external)
CAN	CAN 2.0A (11 bit ID) CAN 2.0B (29 bit ID), 100, 125, 250, 500 kbit
Digital Input IN3 - IN4	$U_{\rm IN}$ = 0 to 30 VDC, $R_{\rm I}$ > 30 kOhm $U_{\rm LOW}$ <= 5 VDC, $U_{\rm HIGH}$ > 5VDC $f_{\rm IN}$ <= 1 kHz, $t_{\rm IN}$ >= 1 ms
Analog Input IN1 - IN2	$U_{IN} = 0$ to 30 VDC, $R_I > 11$ kOhm
Accuracy ADC	± 1% (< 0,2 VDC) 12 Bit
Digital Output OUT1 - OUT4	$\begin{split} &I_{_{OUT}} <= 1.5 \text{ A (resistive load)} \\ &\textcircled{@} f_{_{OUT}} = 0 \text{ to } 100 \text{ Hz} \\ &U_{_{OUT}} >= U_{_{IN}} \text{-} 0.45 \text{ V, } I_{_{TOT}} <= 4 \text{ A} \end{split}$
Stepper Motor Output A1, A2, B1, B2	Motor Type: bipolar Motor Current: 0,11,5 A (adjust.) Step Modes: 1/1, 1/2, 1/4, 1/8
Security Features	Watchdog (WD) Fail safe oscillator (FSO) Brown out detection (BOD) Power up timer (PUT)
Conformity	2004/108/EG 2004/108/EC 2014/30/EU
Electrical Connection	plugable screw-type connectors 0.25 to 1.5 mm ²
Operation Temperature	-40 to +50 °C (IEC 60068-2-1/2)
Storage Temperature	-40 to +70 °C (IEC 60068-2-1/2)
Shock Resistance	min. 100 m/s ² (10G)
Vibration Resistance	min. 50 m/s² (5G) @ 10 to 100 Hz
Protection Grade	IP 66
Housing Material Potting Material	Aluminium Diecast Polyurethane Resin, UL: V0
Weight	180 g
Dimensions	58 x 64 x 34 mm (LxWxH)
Ordering Information Mini-PLC	Mini-PLC STG-700 ArtNo. 0850-0700 GTIN 4251329400132
Ordering Information Accessory	Connection Cable VK-16 USB ArtNo. 0091-0016 GTIN 4251329400187

DOCUMENTS, VIDEOS & SOFTWARE

www.barth-elektronik.de

www.micon-l.de

