tico 773: Opens up versatile possibilities

The fact that the new tico 773 is suitable for a wide range of applications offers you more freedom in planning. Even more: Due to the 3 presets and the simple programming the tico 773 can easily be adjusted to new requirements or processes.
Typical applications are:

- Time controlling
- Position indication
- Rotation speed controlling
- Batch counting
- Cutting to length

tico 773: Simple to handle; easy to program

To use this counter you don't have to be a graduat engineer and you don't need a manual. This is especially important when more than one employee uses the counter. To ensure this the counter comes with an easy readable display (48x48 mm) with large digits (9,3 mm and 7,2 mm) and with only 4 big keys with whom presets, prescaler and seperate totalizer are directly adressable. Even the time counter is adressable directly.

The installation is easy and comfortable due to pluggable terminals.

HENGSTLER

Uhlandstraße 49
D-78554 Aldingen
Tel. +49-(0) 74 24-89-0
info@hengstler.com
www.hengstler.com

Electronic Preset Counter tico 773 with USB interface

One counter and many possibilities!

DOC TICO773_1 010312 E

HENGSTLER

Hengstler tico 773 multifunctional counter

Target values variable and comfortable to control.

Your values:

- Universally applicable as tachometer, timer shift-counter, batch-counter, ...
- Simplified handling
- various preset adjustments possible (signal 1, trail preset, range or limit value)
- Versatile and easy to program
- Impressive, clearly readable display in 48x48 mm
- Input frequency up to 60 kHz
- Easy installation due to pluggable terminals
- 3 Presets
- USB interface

tico 773: Enhanced Application Possibilities with USB Interface

The Tico 773 with USB interface offers the possibility to program the counter quickly and easily via your PC. Therefore, our website offers a free, downloadable programming assistant, which not only provides a clear, user-friendly display, but also recognizes and provides a warning when conflicting entries are attempted. The program settings can be printed and/or saved as a file for documentation purposes. The counter programming itself is either done via a USB interface cable or a USB stick connection to your PC.

The USB interface allows import and export of numerous values and settings (e.g. count value, presets, subtotals, totalizer, batch counter and more). Also, control commands such as resets can be entered.

Other possibilities include:

- Output monitoring: notification of any changes in the outputs
- Wait for keystroke
- Remote display test: The display is momentarily disconnected from the counter and all display elements are illuminated to verify their functionality.

Convincing: The data and facts of the tico 773

GENERAL	**Display**	LCD reflective, 2 lines, counter value/presettings 6-digits; decimal point (up to 4 decimals)
	Digit hight	1st line 9.3 mm; 2nd line 7.2 mm
	Supply voltage	12-30 VDC; 24 VAC; 115 VAC; 230 VAC; 100 - 240 VAC; 50/60 Hz
	Sensor supply	only for AC operation: 12-24 VDC (load-dependent), max. 50 mA only for AC operation: switching power supply 24 VDC, max. 50 mA
	Storage of values	NV-memory > 10 years
	Electrical connections	Plug-in screw-type connections / terminals
	Cable cross-section	1...1.5 mm² with wire-end sleeves
	Amplitude threshold	< 2 V and > 8 V or < 1 V and > 4 V at TTL-level amplitude max. 40 VDC
	Active edge	programmable, positive for PNP-input, negativ for NPN-input
	Pulse form	any desired form (at max. frequency square 1:1)
	Count frequency	max 60 kHz; damped 30 Hz
	Pulse duration min.	17 ms (30 Hz); 10 µs (50 kHz)
	Prescaler	0,0001 - 99,9999
	Reset	manual reset via keyboard, external reset via static or dynamic programming, automatic reset after reaching Preset 2, via application input (programmable) and programmable Power-On Reset
	Set function	Setting to Preset 0 (independent of reset)
	Display and preset range	- 999 999 bis + 999 999
	Alarm signal	Display flashes when preset 0, 1 or 2 are active
	Signal times	0,01 s to 599,99 s or bistable programable
	Relay (preset 1 and 2)	Change-over contact max.: 250 VAC / 30 VDC / 5 A
	Transistor (preset 0, 1 + 2)	PNP-output 12 - 30 VDC, max. 50 mA for DC supply 12 - 24 VDC, max. 30 mA for AC supply 24 VDC max 50 mA for AC switching power supply
COUNTER	**Counter mode input A,B**	Unidirectional; adding or subtracting; directional input; Differential operation, add / sub; Summation (Totalizing) add / add; Phase discriminator single, double or quadruple evaluation
	Control input	Reset; Gate
	Preset modes	Absolute or trail, Range signal /limit values (sign. 1 < P1, sign. 2 > P 2)
	Application input/output	Output: Prescaler out, Preset 0-out, Direction-out Input: counter input add / sub, Keylock, Hold, Teach in, Reset, Set, Gate
BATCHCOUNTER	**Mode**	Batch counter with Preset or 2nd totalizer with Preset
SHIFT-COUNTER	**Counter mode of operation**	Differential counting add/sub, totalizing add/add
TACHOMETER	**measuring principle**	Period (cycle) measurement (1/Tau)
	Time base	1/min or 1/s
	Min. frequency	0,1 Hz = 6 s
	Limit values	2 alarms with programmable startup suppression + 1 additional upper limit value on the application output
	Tachometer mode of operation	Unidirectional add oder sub; directional input Differential add / sub; totalizing add / add; Phase discriminator single, double or quadruple evaluation A / B or (A-B) / A %
	Application input/output	Output: Preset 0-out, Direction-out Input: addtl. counter input add / sub, Keylock, Hold, Teach in
TIME COUNTER	**Time base**	Programmable in sec, min, h or hh.mm.ss
	Resolution	1; 0,1; 0,01; 0,001; 0,0001
	Function	Single-pulse or cumulative measurement
	Measuring principle	Pulse-width or cycle duration measurement Start Inp. A + Stop Inp. B; Start/Stop key
	Application input/output	Output: Preset 0-out Input: addlt. Run, Stop, Reset, Set, Keylock, Hold, Teach in
ENVIROMENTAL CONDITIONS/ SAFETY RULES	**General design**	EN 61 010 / IEC 61010-1
	Protection class	II; EN 61010-1 /IEC 61010-1
	Pollution degree	V 2, EN 50178
	EMC-immunity	EN 61326-1 industrial environment**
	EMC-emission	EN 61326-1 Class B**
	Ambient temperature	0°... 50°C EN 60 068-2-1/2
	Storage temperature	- 20°... + 65°C EN 60 068-2-1/2
	Clima	40°C / 93% rel.hum. Class 4K4H, EN 60 068-2-78 25 - 50°C / 93% rel.hum. , cyclic, EN 60 068-2-38
	Protection class	IP 65 front side; EN 60529 / IP 20 terminals
	Vibration resistance	10 m/s² (10 ... 150 Hz); EN 60 068-2-6
	Shock resistance	100 m/s² (18 ms); EN 60 068-2-27
	Chemical resistance	Front foil acc. to DIN 42 115-2
	Approvals	UL, CSA File Nr.: E 338 588
	RoHS	compliant
MECHANICAL DATA	**Dimensions**	48 mm x 48 mm x 118 mm, installation depth 110 mm; DIN 43700
	Installation	Front panel installation with tenter (frame), front panel thickness max. 11 mm
	Front panel cut out	45 mm x 45 mm +0,3 mm

** For cable length > 30 m, for connection to a DC-supply-network and input level TTL an additional protection circuit is necessary.

ORDER INFORMATION

Display	Relay	12 - 30 VDC	100-240 VAC
LCD reflective	1	0 773 101	0 773 141
LCD reflective	2	0 773 102	0 773 142
LCD transflective	1	0 773 201	0 773 241
LCD transflective	2	0 773 202	0 773 242
LCD transmissive white	1	0 773 301	0 773 341
LCD transmissive white	2	0 773 302	0 773 342
LCD transmissive red	1	0 773 401	0 773 441
LCD transmissive red	2	0 773 402	0 773 442
LCD transmissive green	1	0 773 501	0 773 541
LCD transmissive green	2	0 773 502	0 773 542

ACCESSORIES

USB cable, ASS 3953 CA/ 1,5 m	3 539 835
USB memorystick 2.0 - 2 GB (includes the software for the programming assistant)	3 539 839

All tico 0 77X XXX are equipped with an application input.

All specifications subject to change without prior notice