

Counters

Product Program



tico 731



tico 732



	Electronic Counters	Electronic Counters
Key specs	<ul style="list-style-type: none"> > Small, compact in DIN size: 24 x 48 mm > 5 different versions: Totalizing counter, Timer, Tachometer, 2-channel position indicator and Counter with differential mode > 8-digit LCD- or 6-digit LED-display > Different supply voltages available: <ul style="list-style-type: none"> - independent of mains supply with lithium battery - 12-24 VDC supply, 12-250 VAC/VDC > Programmable count input for voltage signal or contact > Frequency 7,5 kHz or 30 Hz > RESET: reset input with contact > KEYLOCK: locking of the reset key > UL Certified 	<ul style="list-style-type: none"> > Multifunctional counter series, used as totalizing and preset counter, tachometer, time counter, shift or batch counter > DIN size: 48 x 48 mm > 6-digit, high contrast LED display or reflective LCD display > Bi-directional multifunctional counter > Various voltage supplies: 12-24 VDC; 115 VAC or 230 VAC > 1 or 2 presets > Input frequency up to 5 kHz > Freely adjustable prescaling > Programmable keyboard lock > Easily programmable via front button keypad > UL Certified
Fields of application	<ul style="list-style-type: none"> > Totalizing > Produced quantity counting > Production counting > Length measuring (in combination with encoder) > Small machinery > Packaging machines > Crimping machines > Speed monitoring and position monitoring 	<ul style="list-style-type: none"> > Display and control unit in any automation and machinery application > Packaging machines > Wood processing machines > Assembly and handling small machines > Conveyor and transportation automation > Small milling and grinding machines > Laboratory equipment > Speed monitoring and position monitoring
Verticals	<ul style="list-style-type: none"> > Factory automation > Machine building 	<ul style="list-style-type: none"> > Process industry > Food and beverages

tico 772/773/774



Signo 721



	Electronic Counters	Electronic Counters
Key specs	<ul style="list-style-type: none"> > Multifunctional, universally applicable as preset and totalizing counter, time counter, tachometer, 2-shift counter and batch counter > DIN size: 48 x 48 mm > Type 773: with USB interface, type 774: with RS232 interface > 2 line; 6- and 6-digit display > Four different backlight colours with adjustable backlighting > Easy to operate > Input frequency up to 60 kHz > Easy installation via plug-in terminals > 3 presets > UL Certified 	<ul style="list-style-type: none"> > Preset counter > DIN size: 48 x 48 mm > Most simple handling > Input counting frequency up to 60 kHz > Various VAC and VDC input voltages > Different display types: reflective LCD, transmissive LCD black or red digits > 2-line; 5- and 6-digit display > 1 or 2 relays > Counting frequency up to 60 kHz > Easy installation by pluggable terminals > UL Certified
Fields of application	<ul style="list-style-type: none"> > Display and control unit in any automation and machinery application > Packaging Machines > Ceramic production machinery > Food and beverages industry machinery > Wood processing machines > Assembly and handling small machines > Conveyor and transportation automation > Small milling and grinding machines > Laboratory equipment 	<ul style="list-style-type: none"> > Display unit in any automation and machinery application > Packaging Machines > Conveyor and transportation automation > Small milling and grinding machines > Laboratory equipment
Verticals	<ul style="list-style-type: none"> > Factory automation > Machine building 	<ul style="list-style-type: none"> > Process industry > Food and beverages

tico 735A



Self-Powered Counter 750



Process Indicators

- > Process indicator for AC/DC Voltage, DC Process and as a general display
- > DIN size: 48 x 96 mm
- > "Awesome" 18 mm high digit LED display with 2 colours programmable
- > 90-264 VAC, 20-50 VAC/VDC
- > Up to 2 relays
- > Optional Communication interface RS 485
- > With 4-20 mA analog output
- > UL Certified

- > Display unit for Process Automation
- > Control panels
- > Laboratory equipment
- > Pharmaceutical processing machines"

- > Process Automation
- > Food and beverages
- > Chemical

Self-powered Counters

- > Simple, innovative and cost effective
- > ATEX certification for Gas
- > Fully customizable product according customer application
- > No power supply required
- > Extreme shock and vibration resistant
- > Most compact design of its class: 36.5 mm mounting depth and 28 mm diameter
- > Suitable for all fluid media types: water, gas, etc.
- > Applicable as for preventive maintenance tool for counting cycles of an equipment or tools
- > Easy and fast field installation
- > Fraud protection
- > Various communication protocols applicable: NAMUR, HART, MBUS, Wireless

- > Electronic consumption data acquisition in custom gas meters for areas exposed to explosive hazards
- > Gas meters
- > Systems for preventive maintenance

- > Factory automation
- > O&G
- > Water and fluids metering

635 AC mini "iw"



634/635 DC mini "i"



Electromechanical Counters

- > Small AC voltage counter (50 and 60Hz)
- > 6-digit
- > Without reset function
- > Small mounting dimensions
- > Low power consumption
- > Easy to install
- > Protection class IP 66

- > Various machines
- > Electrical machine installations

- > Factory automation
- > Machine building

Electromechanical Counters

- > Incremental totalizing counters
- > 6- or 7-digit
- > Various DC versions
- > Without reset function
- > Type 634: high magnetic resistance
- > Type 635: high shock stability
- > Low power consumption
- > Standard electrical connections
- > Suitable for PCB mounting
- > Machine-solderable and washable (type .1 and .3)
- > Protection class IP65, IP66
- > Models with extended temperature range available

- > Small machines
- > Gaming
- > Petrol stations

- > Factory automation
- > Machine building
- > Elevator

635 AC/DC mini "i" DIN



636 DC hour meter - **NEW**



	Electromechanical Counters	Electromechanical Time Counters
Key specs	<ul style="list-style-type: none"> > Totalizing counters > 6- or 7-digit > Various AC, DC and AC/DC versions > Without reset function > Low power consumption > DIN-rail attachment > Wide voltage range > Screw-type terminals 	<ul style="list-style-type: none"> > Time counters > Standard cutout size 37x24mm > 7-digit > 5 - 30 VDC > Without reset function > Best-in-class mounting depth of 44mm > Fully sealed - IP 67 > Wide temperature range > Low power consumption > Standard electrical connection - 6,3mm [1/4"] male blade
Fields of application	<ul style="list-style-type: none"> > Switches or any counts measuring in switch cabinet installations > Electrical machine installations > Elevators 	<ul style="list-style-type: none"> > Agricultural vehicles and machines > Diesel generators > Compressors > OHV's
Verticals	<ul style="list-style-type: none"> > Factory automation > Machine building 	<ul style="list-style-type: none"> > Factory automation > Machine building > Medical > OHV > Agriculture

633 DC mini "h"



633 AC mini "h"



	Electromechanical Time Counters	Electromechanical Time Counters
Key specs	<ul style="list-style-type: none"> > Time counters > 6- or 7-digit > High shock resistance > Without reset function > Small dimensions > Low power consumption > Standard electrical connections > Suitable for PCB mounting > Type 0633.0 machine-solderable and washable > Protection class IP 66 	<ul style="list-style-type: none"> > Time counters > 6-digit > 24, 115, 230 VAC > 50, 60 Hz > Without reset function > Small dimensions > Low power consumption > Quiet operation > Protection class IP 66
Fields of application	<ul style="list-style-type: none"> > Machine / Working hours measuring > Dialysis machines > Small OHV's > Agriculture vehicles 	<ul style="list-style-type: none"> > Machine / Working hours measuring > Electrical machinery
Verticals	<ul style="list-style-type: none"> > Factory automation > Machine building > Medical > OHV > Agriculture 	<ul style="list-style-type: none"> > Factory automation > Machine building

633 DC mini "i" DIN



891 DIN



Electromechanical Time Counters	Electromechanical Time Counters
<ul style="list-style-type: none"> > Time counters > 7-digit > Various DC versions > Without reset function > Low power consumption > DIN-rail attachment > Low power consumption > Screw terminal connection > Suitable for switch cabinet installation > Snap-on attachment for 35 mm (0.20 in) DIN-rail 	<ul style="list-style-type: none"> > Time counters > 7-digit > Without reset function > DIN dimensions: 24 x 48 mm; 48 x 48 mm and 72 x 72 mm via adapter frames > Easy-to-read display > Screw-type terminal connections > UL Certified
<ul style="list-style-type: none"> > Machine / Working hours measuring in switch cabinet installations > Electrical machine installations > Elevators 	<ul style="list-style-type: none"> > Compressors > Electrical machines > Crimping Machines > Injection Moulding Machines
<ul style="list-style-type: none"> > Factory automation > Machine building 	<ul style="list-style-type: none"> > Factory automation > Machine building > Elevator

891 "Surface"



853



Electromechanical Time Counters	Electromechanical Counters
<ul style="list-style-type: none"> > Surface mounting or DIN-rail attachment > See 891 type 	<ul style="list-style-type: none"> > Totalizing counter > Surface mounting > Various VAC and VDC versions > 6-digit > Button reset, key reset > Simple installation
<ul style="list-style-type: none"> > Machine / Working hours measuring in switch cabinet installations > Electrical machine installations > Elevators 	<ul style="list-style-type: none"> > Production lines > Automation applications where built-in version is not suitable > Packaging machines > Crimping machines
<ul style="list-style-type: none"> > Factory automation > Elevator > Machine building 	<ul style="list-style-type: none"> > Factory automation > Machine building > Process industry

464-468



Piccolo 872-877



	Electromechanical Counters	Electromechanical Counters
Key specs	<ul style="list-style-type: none"> > 4-, 6- or 8-digit display > Various VAC and VDC versions > With manual/electrical reset or without reset > Plugs into modular system 400 > Can be combined with other counters in the Modular System 400 > Convenient for service > Easy maintenance through plug-in system > UL Certified 	<ul style="list-style-type: none"> > Totalizing counters > Small mounting dimensions > 4-, 5-, 6- or 7-digit display > Various VAC and VDC versions > AMP connector connection > Button reset or without reset > Simple installation > UL Certified
Fields of application	<ul style="list-style-type: none"> > Production lines > Packaging machines > Crimping machines 	<ul style="list-style-type: none"> > Production lines > Packaging machines > Crimping machines > Coffee machines
Verticals	<ul style="list-style-type: none"> > Factory automation > Machine building > Process automation 	<ul style="list-style-type: none"> > Factory automation > Machine building > Process industry

864-868



478



	Electromechanical Time Counters	Electromechanical Time Counters
Key specs	<ul style="list-style-type: none"> > 4-, 6- or 8-digit display > For front panel mounting > VAC and VDC versions > With manual/electrical reset or without reset > Simple installation > Convenient for service > Various front panel sizes > UL Certified 	<ul style="list-style-type: none"> > Time counters > 6-digit, button reset > 7-digit without reset > Various AC and DC versions > Manual reset, key reset or without reset > Simple installation > Can be combined in the modular system 400 > Easy maintenance
Fields of application	<ul style="list-style-type: none"> > Production lines > Packaging machines > Crimping machines 	<ul style="list-style-type: none"> > Electrical cabinets > Electrical machines > Crimping Machines
Verticals	<ul style="list-style-type: none"> > Factory automation > Machine building > Process automation 	<ul style="list-style-type: none"> > Factory automation > Machine building

446-447



886-887



Electromechanical Preset Counters	Electromechanical Preset Counters
<ul style="list-style-type: none"> > Subtracting preset counters > 3- or 5-digit > Various VAC and VDC versions > Button, electrical or key reset > Plugs into modular system 400 > Preset constantly visible > Simple installation > Easy maintenance 	<ul style="list-style-type: none"> > Adding preset counters > 3- or 5-digit > Various VAC and VDC versions > Button, electrical or key reset > Preset constantly visible > Front panel mounting > Simple installation via screw attachment > Easy maintenance
<ul style="list-style-type: none"> > Production lines > Packaging machines > Crimping machines" 	<ul style="list-style-type: none"> > Production lines > Packaging machines > Crimping machines
<ul style="list-style-type: none"> > Factory automation > Machine building > Process industry" 	<ul style="list-style-type: none"> > Factory automation > Machine building > Process industry

486-487



651 Pulse Scaler



Electromechanical Preset Counters	Electronic Pulse Scalers
<ul style="list-style-type: none"> > Adding preset counters > 3- or 5-digit > Various VAC and VDC versions > Button, electrical or key reset > Plugs into modular system 400 > Preset constantly visible > Simple installation > Easy maintenance 	<ul style="list-style-type: none"> > Programmable pulse scaling factor up to 2047:1 > NAMUR generator input > DIN-rail attachment > PNP transistor output > Can be used as pulse shaper > Max. pulse frequency 5 kHz
<ul style="list-style-type: none"> > Production lines > Packaging machines > Crimping machines 	<ul style="list-style-type: none"> > Electronic and electromechanical applications where pulses need to be rescaled
<ul style="list-style-type: none"> > Factory automation > Machine building > Process industry" 	<ul style="list-style-type: none"> > Factory automation > Machine building

Colibri 490



101/103/301/309



	Mechanical Counters (With Magnetic Actuation)	Mechanical Counters
Key specs	<ul style="list-style-type: none"> > Contactless counting > 6- or 7-digit > Actuation by a magnet or Iron > Small dimensions > Easy installation > Protection class IP 65 > Without reset function > Maintenance-free operation > Applicable as for preventive maintenance tool for counting cycles of an equipment or tools 	<ul style="list-style-type: none"> > Small mechanical revolution and stroke counters > 4- or 5-digit > Revolution counter with transmissions: 1:1, 1:10 > Actuation left or right and both directions available > Surface or flush mounting > Available with or without case > Without reset function
Fields of application	<ul style="list-style-type: none"> > Crimping machines > Stamping tools > Counting of moving pistons at end positions > Various application where counting is needed via contactless actuation and without electric power 	<ul style="list-style-type: none"> > Small handling machines > Production assembly hand operated presses > Circuit breakers > Coffee-machines > Various measuring and counting devices
Verticals	<ul style="list-style-type: none"> > Factory automation > Machine building 	<ul style="list-style-type: none"> > Factory automation > Machine building > HV circuit breakers

125



225



	Mechanical Counters	Mechanical Counters
Key specs	<ul style="list-style-type: none"> > Revolution and stroke counters > 4- or 5-digit > Miniature size > Transmission ratio 1:1 or 1:10 > Actuation left or right and both directions available > Surface mounting > With button reset > Protection class IP 50 > Size: 53 x 45 x 35 mm 	<ul style="list-style-type: none"> > Revolution, length and stroke counters > Approved for length counting by the PTB (German Federal Institute für Physics and Technology) > 6-digit display (m/dm or m/cm) > Large digits, 6.5 mm high > With button reset > Counter with suspension device > Adjustable counterweight > Size: 132 x 69,2 x 74,2 mm
Fields of application	<ul style="list-style-type: none"> > Small handling machines > Production assembly hand operated presses > Various measuring and counting devices > Piece and/or stroke counting for punches or presses > Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc. 	<ul style="list-style-type: none"> > Various length measuring and counting devices > Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc. > Production assembly hand operated presses > Piece and/or stroke counting with quantity setting for punches or presses
Verticals	<ul style="list-style-type: none"> > Factory automation > Machine building 	<ul style="list-style-type: none"> > Factory automation > Machine building

150



205/110/111/312



Mechanical Counters	Mechanical Counters
<ul style="list-style-type: none"> > Revolution counter, transmission ratio 1:10 > 6-digit > Robust and durable design > Length counter, transmission ratio 1:2, stroke counter, transmission ratio 1:1 > Actuation on both sides, right or left and both directions > Surface mounting > With button reset > Size: 80 x 45 x 43,5 mm 	<ul style="list-style-type: none"> > Type 205: Length measuring counters > Type 110/111: Revolution counters > Type 312: Stroke counters > 7-digit display > Large 8 mm digits > Actuation on both sides and both directions > With key reset > Size: 132 x 69,2 x 74,2 mm
<ul style="list-style-type: none"> > Small handling machines > Production assembly hand operated presses > Various measuring and counting devices > Piece and/or stroke counting for punches or presses > Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc. 	<ul style="list-style-type: none"> > Various length measuring and counting devices > Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc. > Production assembly hand operated presses > Piece and/or stroke counting with quantity setting for punches or presses
<ul style="list-style-type: none"> > Factory automation > Machine building 	<ul style="list-style-type: none"> > Factory automation > Machine building

250



ENM UN/Tampons



Mechanical Preset Counters	Automatic Numbering Machines
<ul style="list-style-type: none"> > Preset revolution, length and stroke counters > 5-digit > Large 6,5 mm (0.3 in)-high digits > Robust and durable design > Transmission ratios 1:1, 2:1, 1:5 > Large and easy operated preset buttons > Button reset, secured against accidental operation > Actuation on both sides > Surface mounting > Size: 132 x 69,2 x 74,2 mm 	<ul style="list-style-type: none"> > Universal self-inking numbering machines > Automatic version: numbers change automatically in 8 different settings: repeat, consecutive, 2-, 3-, 4-, 5-, 6- and 12-times repeat > Manual version: number change is done by operator manually by a lever > Different fonts and digit sizes available > Available in plastic or full metal versions > Inking tampons with durable and high quality ink
<ul style="list-style-type: none"> > Various length measuring and counting devices > Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc.» Production assembly hand operated presses > Piece and/or stroke counting with quantity setting for punches or presses 	<ul style="list-style-type: none"> > Document numbering in offices or production facilities > Identifying processed documents - orders, job tickets, WIP cards, despatch sets, shipping documents, etc.
<ul style="list-style-type: none"> > Factory automation > Machine building 	<ul style="list-style-type: none"> > Various office work areas > Customs > Document processing > Archives

495 Pneu



499 Pneu Timer and Reset Module



	Pneumatic Counters	Pneumatic Timers
Key specs	<ul style="list-style-type: none"> > Pneumatic totalizing counters > 6 or 8-digit display > Versions for flush and surface mounting > Manual, pneumatic or without reset > Hose coupler M5 or rapid-fit connector > Simple installation > Maintenance-free operation > ATEX certified versions available for Gas, Dust and Mining 	<ul style="list-style-type: none"> > Preset timers in various time ranges > Convenient setting of preset value by rotary knob > Preset and remaining time values continuously visible > Precise time preset 0.2 s to 300 s > DIN dimensions and optional for DIN-rail mounting > Maintenance-free operation > Hose coupler M5 or rapid-fit connector > Pressure-independent > No continuous air supply required > ATEX certified versions available for Gas, Dust and Mining
Fields of application	<ul style="list-style-type: none"> > Quantity counting > Order and daily production value recording > Packaging unit control > Dosing and filling (resins, liquids, powders, etc.) > Production assembly hand operated presses 	<ul style="list-style-type: none"> > Pneumatic applications with fully automatic time control > Automatic door control units for passengers vehicles > Time control with manual intervention > Industrial transportation systems (eg. for fine powders also with combustion risk) > Oil and gas areas > Dosing and filling (resins, liquids, powders, etc.)
Verticals	<ul style="list-style-type: none"> > Factory automation > Food & Beverages industry > O&G > Chemical 	<ul style="list-style-type: none"> > Factory automation > Food & Beverages industry > Railway > O&G > Chemical

497 Preset Counter



497 Preset Timer



	Pneumatic Preset Counters	Pneumatic Preset Time Counters
Key specs	<ul style="list-style-type: none"> > Preset totalizing counters > 3- or 5-digit > Adding or subtracting versions > Convenient button setting > Preset constantly visible (in adding mode) > 2 - 8 bar > Hose coupler M5 or rapid-fit connector > Front panel installation > Button and pneumatic reset, automatic reset > Integrated pneumatic reset > ATEX certified versions available for Gas, Dust and Mining 	<ul style="list-style-type: none"> > Preset time counters > 3 or 5-digit display > Seconds and Minutes versions > Preset values continuously visible > Hose coupler M5 or rapid-fit connector > Integrated pneumatic reset > Optional automatic reset > Convenient button setting > Maintenance-free operation > ATEX certified versions available for Gas, Dust and Mining
Fields of application	<ul style="list-style-type: none"> > Pneumatic fully automatic control systems > Industrial transportation systems (eg. for fine powders also with combustion risk) > Oil and gas areas > Dosing and filling (resins, liquids, powders, etc.) > Chicken vaccination devices 	<ul style="list-style-type: none"> > Pneumatic applications with fully automatic time control > Clock generator > Time control with manual intervention > Compressors > Paint spaying machines > Industrial transportation systems (eg. for fine powders also with combustion risk) > Oil and gas areas > Dosing and filling (resins, liquids, powders, etc.)
Verticals	<ul style="list-style-type: none"> > Factory automation > Food & Beverages industr > Chemical" > Railway > O&G 	<ul style="list-style-type: none"> > Factory automation > Food & Beverages industry > O&G > Chemical

490 Pneumatic Proximity Switch



Pneumatic Proximity Switches

- > Touchless switching
- > Small dimensions
- > Switching between magnet field and Fe
- > No continuous air supply required
- > ATEX certified versions available for Gas, Dust and Mining

- > Pneumatic automation devices
- > Detection of position of pistons at end positions
- > Material transportation and packaging lines
- > Purely pneumatic cylinder limit switches

- > Factory automation
- > Food & Beverages industry
- > O&G
- > Chemical

Accessories



General

- > Various sizes to fit different types of counters
- > Robust measuring wheels with various materials and sizes
- > Covers lockable with key or knob
- > Different materials and sizes of levers to fit all types of stroke counters and application

- > Stroke levers: For mechanical stroke lever counter applications
- > Measuring wheels: Conversion of lengths to rotations
- > Covers: For mounting of counters and improving IP

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