COMECO
CONTROL & MEASUREMENT
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Weighing Indicator TI 500

- ♦ **Drives up to four 350W load cells**
- ♦ **6-digit 20mm high LED display**
- ♦ **1/20000 display resolution**
- ♦ **Up to 4 discrete inputs and 5 relay outputs**
- ♦ **IP-65 front panel protection available**
- ♦ **RS232/RS485 interface**

TI 500 is a general-purpose 6000-division programmable weighing indicator manufactured by COMECO. It comes with a **6-digit bright LED display with 20mm digit height** for easy readout in darker areas. Weighing units of up to 20000 display resolution divisions can be displayed. TI 500 can drive up to four 350Ω analog load cells connected by a 4-wire schematic. The unit is housed in a robust ABS enclosure with a front panel, which can optionally meet **IP-65** protection standards. All program parameters may be entered via the front panel membrane keys. The indicator can be equipped with up to 5 relay outputs, providing alarm, ON/OFF, or, by request, special type of control. The additional **4 discrete inputs** may be used as key-lock inputs or, by request, for several other applications. The device can be ordered with one **RS232 serial port** or one **RS484 network interface**. Due to its flexibility and input-output resources as well as its accuracy specifications and low cost, TI 500 is widespread in industrial and laboratory applications.

TI

Technical specifications

Analog input

Load cell drive	up to 4 load cells 350 Ω
Load cell excitation voltage	5 VDC
Load cell input sensitivity	0.2 to 2 mV/V
Load cell connection	4-wire
Digital display range	Max. 20000
Display-to-input correspondence	User programmable
Decimal point position	User programmable

Discrete inputs *(optional)* — *(up to 4 inputs)*

Input signal type	Contact, TTL, NPN, or PNP
Input 1 function	Key lock
Other input function	On request

Relay outputs — *(up to 5 outputs)*

Output type	SPST relay (with 1 NO contact)
Output ratings:	
- output switching current	6A
- output switching voltage	Max. 250 VAC
Alarm limits and parameters	User programmable
Other relay functions	Dosing or other on request

Accuracy

Accuracy class	0.015
Accuracy divisions	6000
Weighing units	g, kg, or t (programmable)
Linearization	5 points
Calibration included	'Zero' and 'Span'

Power supply

Supply voltage	220(110) VAC or 24 VDC
Consumption	Max. 6 VA

Operating conditions

Operating temperature	-10 to 40 °C
Operating humidity	0 to 85 %RH, non-condensing

Digital interface *(optional)*

Output type	Isolated: RS232 or RS485
Output function	Network, operator station

Display and keyboard

Digital display	6-digit bright LED
Digit height	20 mm
LED indicators	8 LEDs
Keyboard	6 membrane keys

Design and materials

Case material	Plastic ABS
Mounting	In panel cut-out
Wiring	Snap-on screw terminal blocks
Mounting cut-out	137(138) x 67(68) mm
Dimensions	144 x 372 x 105 mm
Weight	Max. 800 g
Protection front/terminals	IP-54 / IP-20
IP-65 front panel protection	*(optional)*

Ordering code → TI500 - G1.G5G5G5G5G5.G7G7G7G7.G9 - #1#2

Code	Feature or option	Code values
G1	Power supply type	**A** - 220 VAC, **B** - 110 VAC, **E** - 24 VDC
G5	Relay output type	**X** - none, **C** - relay NO
G7	Discrete inputs [(1)]	**X** - none, **A** - contact, **E** - NPN, **F** - PNP, **G** - TTL
G9	Interface	**X** - none, **A** - isolated RS232, **B** - isolated RS485
#1	Special relay control function	**X** - none, **S** - on request (specify when ordering!)
#2	IP-65 front panel protection	**X** - none, **P** - protected front panel

[(1)] One of the inputs without fall executes a 'key-lock' function!

For detailed instructions on order coding see chapter "ORDERING CODES"!