



PROCESS AUTOMATION

Laumas Electronics and Weighing Modules



Your Expert Partner in Sensors & Controls

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SENSORS & CONTROLS

INNOVATIVE SOLUTIONS FOR PROCESS AUTOMATION

Althen Sensors & Controls stands for pioneering measurement and sensor solutions. We meet every measurement challenge. Our product range covers all physical quantities and diverse technologies for measuring them. Thanks to our extensive experience, our technical know-how, our strong team of engineers and our wide range of products we can offer the most efficient solutions for nearly all applications in all branches of industry.

Founded in 1984, Laumas develops and manufactures in Monteciarugolo, Italy, and has been one of the market leaders in the field of automation for years. The extensive product range of the Laumas weighing and dosing solutions comprises matched systems consisting of weighing cells, weighing modules and electronic weighing transmitters.

The portfolio is complemented by a comprehensive line of accessories and special evaluation software for industrial weighing solutions. All relevant standards such as OIML, ATEX, IECEx, EAC, NTEP and UL are complied with.

The automation solutions from Laumas are characterised by their compatibility with all common fieldbus standards. Using the PLC interfaces of established international control manufacturers, TLB transmitters can be installed in almost any industrial plant. The modular design offers a cost-effective alternative to comparable

electronics from PLC manufacturers. All products are available at short notice. The standards are available from stock. There is no need for storage of additional products by the customer.

Compatibility problems which can result from the use of products from different manufacturers are also avoided. The entire range of automation solutions is covered by Laumas.

Would you like to test the solution for a trial run? No problem, just contact us! We also offer direct support for technical questions.

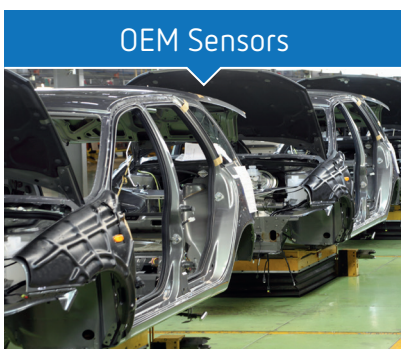
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A High-quality Production

A Measurement and Rental

A Special Custom Calibration

A Training & Consulting





PROCESS AUTOMATION

LAUMAS ELECTRONICS AND WEIGHING MODULES



TLB4 SERIES

Digital-analog weight transmitter/indicator with four independent reading channels for load cells, including display of the total weight. Suitable for all standard bus systems.



LCB

Universal load cells with integrated analog/digital converter. The LCB transforms an analog load cell (mV/V output) into a digital one. It can also be used on existing load cells to digitize the weighing system. Conceived for IoT applications.



TLKWF

WiFi digital weight transmitter for wireless connection via integrated web server (for remote management to PC, smartphone, tablet, etc.) or via Modbus RTU/Laumas ASCII protocol. Different applications possible with LAUMAS products.



WLIGHT

Weight indicator with 6-digit semi-alphanumeric red LED display. RS232 serial ports for communication via protocols ModBus RTU. Up to eight load cells in parallel possible (by junction box). Piece counting and weight totalizing.





DIGITIZER



TRANSMITTER



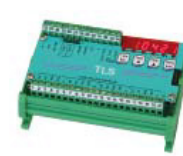
TRANSMITTER



TRANSMITTER



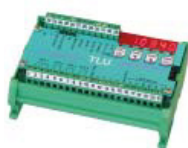
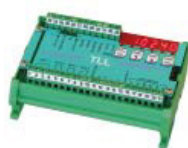
TRANSMITTER



TRANSMITTER

	LCB	Serie TLB4	Serie TLB	Serie TLM8	Serie TLK	Serie TLS
Housing material	AIS316 stainless steel	ABS	ABS	ABS	PC	ABS
Mounting	Integral to the load cell body or wired	Back panel mounting on Omega/DIN rail or front panel	Back panel mounting on Omega/DIN rail	Back panel mounting on Omega/DIN rail or junction box	Wall	Back panel mounting on Omega/DIN rail or junction box
Dimensions mm	97x38x82 (incl. flying connectors)	26x115x120	25x115x120	148x92x60	170x80x65	123x92x50
Protection rating	IP67	-	-	-	IP67	-
Supply	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 2 W	12÷24 VDC ±10% - 5 W
Battery	-	-	-	-	Optional	-
Display	-	Red LED	Red LED	Graphic LCD	LCD	Red LED
Keyboard	-	4 buttons	4 buttons	5-key	4-key	4-key
A/D Converter	24 bit (16000000 points) 4.8 kHz	4 channels 24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz	8 channels 24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 80 Hz
Divisions *	±999999 - 6.6 nV/d	±999999 - 0.01 µV/d	±999999 - 0.01 µV/d	±999999 - 0.01 µV/d	±999999 - 0.01 µV/d	±999999 - 0.01 µV/d
Divisions CEM approved	-	3x10000e - 0.25 µV/VSI	3x10000e - 0.2 µV/VSI	3x10000e - 0.2 µV/VSI	3x10000e - 0.6 µV/VSI	-
Analog output	✓ (cod. LCBRS485ANA)	✓ (cod. TLB4)	✓ (cod. TLB)	✓	-	✓ (cod. TLS)
No. relay outputs	3	3	3	5	4	2
No. digital inputs	2	2	2	3	2	2
Serial port	RS485 (Modbus RTU) (cod. LCBRS485)	RS485 (Modbus RTU)	RS485 (Modbus RTU)	RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)	RS485 (Modbus RTU)
Wireless connection	-	-	-	-	✓ (cod. TLKWF)	-
Fieldbuses	Optional: IO-Link CANopen CC-Link IE CC-Link PROFIBUS DP PROFINET IO Ethernet/IP Modbus/TCP Ethernet TCP/IP EtherCAT POWERLINK SERCOS III	Optional: CANopen DeviceNet CC-Link PROFIBUS DP PROFINET IO Ethernet/IP Modbus/TCP Ethernet TCP/IP EtherCAT POWERLINK SERCOS III	Optional: CANopen DeviceNet CC-Link PROFIBUS DP PROFINET IO Ethernet/IP Modbus/TCP Ethernet TCP/IP EtherCAT POWERLINK SERCOS III	Optional: CANopen DeviceNet CC-Link PROFIBUS DP PROFINET IO Ethernet/IP Modbus/TCP Ethernet TCP/IP EtherCAT POWERLINK SERCOS III	-	-
Alibi memory Optional	-	✓	-	✓	-	-
Box versions Optional	-	-	-	IP67 188x188x130 mm	-	IP67, IP67 ATEX II 3GD 170x140x95 mm
Certifications						

*) with measure range ±10 mV and sensitivity 2 mV/V



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INTELLIGENT JUNCTION BOXES

THFPROFI	TLE	TLL	TLU	CLM8INOX	CLM4ABS CLM8ABS	CLM8TL	CLM8	CLM8I
ABS	ABS	ABS	ABS	Inox	ABS	PC	-	-
Back panel mounting on Omega/DIN rail or junction box	Back panel mounting on Omega/DIN rail or junction box	Back panel mounting on Omega/DIN rail or junction box	Back panel mounting on Omega/DIN rail or junction box	Junction box	Junction box	Junction box	Back panel mounting on Omega/DIN rail	-
148x92x50	90x95x60	123x92x50	123x92x50	200x148x45	210x130x40	170x140x95	125x92x52	151x72x30
-	-	-	-	IP67			-	-
12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 3 W	12÷ 24 VDC ± 10%-5 W	12÷ 24 VDC ± 10%-5 W	12÷ 24 VDC ± 10%-5 W				
-	-	-	-	-				
Red LED	LCD	Red LED	Red LED	LCD				
4-key	Encoder with integrated button	4-key	4-key	4-key				
24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 80 Hz	24 bit (16000000 points) 80 Hz	8 channels 24 bit (16000000 points) 4.8 kHz				
±999999 - 0.01 µV/d	±200000 - 0.01 µV/d	±999999 - 0.01 µV/d	±999999 - 0.01 µV/d	± 999999 - 0.01 µV/d				
3x10000e - 0.2 µV/VSI	-	-	-	3x10000e - 0.4 µV/VSI				
-	✓	✓ (cod. TLLANA)	✓ (cod. TLUANA)	-				
1	-	4	4	-				
1	-	2	2	-				
RS485 (Modbus RTU)	RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)				
-	-	-	-	-				
PROFIBUS DP slave	-	-	-	Optional: Ethernet TCP/IP				
-	-	-	-	✓				
IP67, IP67 ATEX II 3GD 170x140x95 mm	IP67, IP67 ATEX II 3GD 170x140x95 mm	IP67, IP67 ATEX II 3GD 170x140x95 mm	IP67, IP67 ATEX II 3GD 170x140x95 mm	-				



W200 series**

WDESK series

	W100	W200	W200BOX W200BOXEC	WDOS	WLIGHT	-G	-L	-R
Housing material	PPO	PPO	PC	PPO	ABS	ABS		
Mounting	Panel	Panel	Wall	Panel	Wall, column, desk	Wall, panel, column, desk		
Dimensions mm	48x96x130	96x96x130	170x140x95	96x96x130	120x200x280	122x226x164		
Protection rating	IP54 optional: IP65	IP54 optional: IP65	IP67	IP54 optional: IP65	IP40	IP67		
Supply	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W		12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 6 W	12÷24 VDC ±10% - 6 W		
Supply 115/230 VAC 50/60 Hz optional	-	✓ not compatible with fieldbus	-	✓ not compatible with fieldbus	-	✓ not available for D version		
Power supply 24 V 450 mA, input 100-240 VAC	-	-	-	-	-	✓ included for P - D versions		
Battery optional	-	-	-	-	✓	✓		
Display	Red LED	Red LED		Graphic LCD Red LED	Red LED	Graphic LCD 133x39 mm	LCD	Red LED
Keyboard	4-key	5-key		10-key	5-key	21-key	6-key	6-key
A/D Converter	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz		24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz		
Divisions *	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d		±999999 - 0.01 μV/d	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d		
Divisions CEM approved	3x10000e 0.2 μV/VSI	3x10000e 0.2 μV/VSI		3x10000e 0.2 μV/VSI	-	3x10000e 0.2 μV/VSI		
Analog output optional	✓	✓		✓	-	✓		
No. relay outputs	5	5		5	-	5		
No. digital inputs	3	3		3	-	3		
Serial port	RS232, RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)		RS232, RS485 (Modbus RTU)	RS232 (Modbus RTU)	RS232, RS485 (Modbus RTU)		
Wireless connection	-	-		-	-	✓ OPZW1RADIO: optional WiFi module		
Fieldbuses	-	Optional: PROFIBUS DP DeviceNet CANopen PROFINET IO Modbus/TCP Ethernet/IP Ethernet TCP/IP		Optional: PROFIBUS DP DeviceNet CANopen PROFINET IO Modbus/TCP Ethernet/IP Ethernet TCP/IP	-	Optional: PROFIBUS DP DeviceNet CANopen PROFINET IO Modbus/TCP Ethernet/IP Ethernet TCP/IP		
USB port optional	-	✓	-	✓	-	✓		
Batching programs	-	✓		✓	-	✓		
Multilingual software	-	-		✓	-	✓	-	-
Alibi memory optional	✓	✓		✓	-	✓		
Certifications								

* with measure range ±10 mV and sensitivity 2 mV/V

** ADPEW200 ATEX explosion proof box, W200 indicators, Zener barriers.



WINOX series



WTAB series



WEIGHBRIDGE INDICATORS series

WINOX series				WTAB series				WEIGHBRIDGE INDICATORS series										
-2G	-G	-L	-R	-2G	-G	-L	-R	WDESK		WINOX			WTAB					
								-BL	-BR	-BGE	-BL	-BR	-BGE	-BL	-BR			
AISI 304 stainless steel				ABS				ABS		AISI 304 stainless steel			ABS					
Wall, panel, column, desk				Desk				Wall, desk		Desk			Desk					
206x286x108				315x315x170				122x226x164		206x286x85			315x315x170					
IP68 optional: IP69K				IP40				IP40										
12÷ 24 VDC ± 10% - 6 W				12÷ 24 VDC ± 10% - 6 W				12÷ 24 VDC ± 10% - 6 W										
✓ available for P version				-				-		-			-					
✓ included for P - D versions				✓				✓		✓			✓					
✓ not available for D version				✓				✓		-			✓					
2G: graphic LCD 128x75 mm G: graphic LCD 133x39 mm		LCD	Red LED	2G: graphic LCD 128x75 mm G: graphic LCD 133x39 mm		LCD	Red LED	LCD	Red LED	graphic LCD 133x39 mm	LCD	Red LED	graphic LCD 133x39 mm	LCD	Red LED			
27-key	21-key	6-key	6-key	27-key	50-key	8-key	8-key	19-key	19-key	52-key	19-key	19-key	52-key	19-key	19-key			
24 bit (16000000 points) 4.8 kHz				24 bit (16000000 points) 4.8 kHz				24 bit (16000000 points) 4.8 kHz										
±999999 - 0.01 µV/d				± 999999 - 0.01 µV/d				± 999999 - 0.01 µV/d										
3x10000e 0.2 µV/VSI				3x10000e 0.2 µV/VSI				3x10000e 0.2 µV/VSI										
✓				✓				-										
5				5				5										
3				3				3										
RS232, RS485 (Modbus RTU)				RS232, RS485 (Modbus RTU)				RS232, RS485 (Modbus RTU)										
✓ OPZW1RADIO: optional WiFi module				✓ OPZW1RADIO: optional WiFi module				✓ OPZW1RADIO: optional WiFi module		-			✓ OPZW1RADIO: optional WiFi module			-		
Optional: PROFIBUS DP DeviceNet CANopen PROFINET IO Modbus/TCP Ethernet/IP Ethernet TCP/IP				Optional: PROFIBUS DP DeviceNet CANopen PROFINET IO Modbus/TCP Ethernet/IP Ethernet TCP/IP				-		Optional: Ethernet TCP/IP			-			Optional: Ethernet TCP/IP		
✓				✓				-		-			✓			-		
✓				-				-		-			-			-		
✓	✓	-	-	✓	✓	-	-	-	-	✓	-	-	✓	-	-			
✓				✓				✓										





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