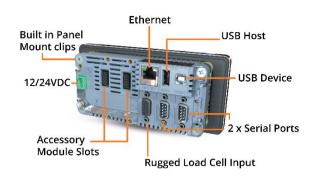


C500 Series – Data Sheet





- 16 x 350Ω load cells
- AC and DC versions
- Ethernet and USB host and slave standard
- 10,000d @ 0.5 μV/d
- 8 I/O (option)
- Analog module with 2 isolated I/O (option)
- High contrast LED display
- Three programmable function keys
- Totalizing, Hold, and Peak Hold
- MODBUS TCP/IP, ASCII, RTU
- Ethernet/IP option
- Lua programmable option
- Embedded web server
- Diagnostics via Ethernet or rinLINK

C500 Series is Rinstrum's latest panel mounted industrial process controller equipped with modern interfaces and increased accuracy. The C500 Series is the culmination of 25 years of innovative weighing controller design, bringing together the best of our R400 and 5000 Series.

Three models are available in the C500 Series. The C520 has a high-contrast LED display and 6-button keypad. The C530 is the same weighing electronics, din rail mounted with no display. When panel mounted, the C520 uses a standard ½ DIN cut out and can generally be used as a direct drop-in replacement for the Rinstrum 5000 and other process controllers like the HBM WE2110 and WE2111.

The C527 is IP65 rated waterproof stainless-steel housing unit with all C500 series weighing capabilities. It comes with wall, desk and pole mounting options and is available as either a factory fit AC or DC version

Ideal applications for the C500 Series include truck weighing, process control, OEM, and programmable solutions using the embedded Lua scripting engine.

Connectivity

USB Host and Slave, Ethernet and Modbus are standard

- USB keyboard, printer, mass storage and serial connections
- Ethernet networking for connection to a PC or HMI
- Connection to PLC using Modbus, optional Ethernet/IP package or Analog output module
- RS232 or RS422/485 (4 wire) serial port for connecting external computers or PLCs, or as a driver for remote displays
- RS232 serial port to drive serial printers (with DTR handshaking) and remote displays. It can also be used as a network port
- Ethernet or magnetically coupled rinLINK provide a temporary connection to a laptop for configuration and diagnostics

Ethernet/IP support with optional software



Modules

- 8 isolated Input/Output (I/O)
- Analog output including two isolated I/O
- Isolated RS232 and RS485



Smart Weighing - C530

- Ideal for DIN rail or surface mounting
- Setup via the PC using Rinstrum C500 Viewer
- rinLINK connector on the rear for quick temporary connection to the PC



C500 Series Specifications

Specifications	C520	C527	C530			
Resolution	Up	o to 100,000d, minimum of 0.05 p	ıV/d			
	CE, C-tick 10,000d @ 0.5 μV/d OIML R76 NTEP					
Approvals						
Zero Cancellation	+ / - 2.0mV/V					
Span Adjustment		0.1mV/V to 3.0mV/V full scale				
Excitation	5V for up to 16 x 350-ohm load cells					
Excitation	4-wi	4-wire (with jumpers) or 6-wire plus shield				
A/D Type	24-bit Sigma Delta					
Nominal Environment	8,388,608 internal counts					
Operating Environment	Temperature -10 to +40°C (14 °F to 104 °F)					
Storage	Temperature -10 to +60°C (14 °F to 140 °F) Temperature -40 to +70°C (-40 °F to 158 °F)					
Giorage			None, connect via USB, rinLINK or			
Display	13.8mm tall (0.543") Green LEDs 6 x 14-segment digits		Ethernet to PC software, C500 Viewer or smart HMI			
Setup and Calibration	Full digital calibration with visual prompting in plain messages					
FIR Hardware DSP Filter	Selectable from 10 Hz – 100 Hz					
Digital Filter	Averaging from 1 to 200 consecutive readings					
Zero Range	Adjustable from 4% to 100% of full capacity					
Correction	10-point linearity correction					
Power						
DC Power	12-24VDC 10VA					
AC Power	110-240VAC 50-60Hz ~0.6A Accessory M5104, includes 12VDC output	110-240VAC 50-60Hz ~0.6A	110-240VAC 50-60Hz ~0.6A Accessory M5104, includes 12VDC output			
Connectivity						
Ports	USB Host: 1, supports keyboard, printers, mass storage, serial ports	USB Host: 1, supports keyboard, printers, mass storage, serial ports (Front Facing)	USB Host: 1, supports keyboard, printers, mass storage, serial ports			
	USB Slave: 1, operates a	s USB serial port, Windows drive	er installs with C500 Viewer			
	Ethernet: 1 x 10/100 Interface					
	rinLINK - magnetically coupled infra-red port					
	Serial Port 1 : RS232 and RS422/ RS485					
	Serial Port 2 : RS232					

Accessories		
No. of Option Slots	2	
	8 x Isolated (>500V) digital I/O control points	
8 I/0 Module	High Side FET Outputs will drive up to 400mA each	
Set Point Card	High Side inputs (12-24V)	
	Accessory M5301, Active HIGH	
Analog Output Module	1 x Analog output	
Includes 2 I/O	Isolated (>500V) 4-20mA or 0-10V. 400Hz update at 1/65,000 resolution.	



Combo Card	2 x digital I/O				
	Accessory M5401				
	Accessory M5201, RS232/RS232 Isolated				
Serial Modules	Acc	Accessory M5203, RS485/RS485 Isolated			
	Bi-directional with secondary transmit only				
Features					
Set Points	8				
Set Fullits	selectable Active, Motion, Zero, Error, Net				
Annunciators	lb, kg, g, oz, t, I/O 1-8, Range 1/2/3, COZ, Motion, Net, Zero Band, Hold, 4-Spare, 5-Check Weigh		visible via PC software		
Keys	6 keys		controlled via PC software		
	Zero, Tare, Gross/Net, 3 x function				
Operating Modes	Single Range, Dual Range and Dual Interval				
Clock	Battery Backed Clock Calendar				
Alibi Mode	Standard				
Change Log	Standard				
Data Storage (DSD)	Standard, built in				
Comms Protocol	rinCMD and 5000 legacy via serial, USB, TCP and UDP, Modbus ASCII, RTU & TCP/IP				
Mechanical					
	164mm W x 77mm H x 47.4mm D	207.5mm W x 285.5mm H x	162mm W x 65.6mm H x 56.1mm D		
Case Size	6.45" W x 3.03" H x 1.87" D	134mm D	6.38" W x 2.58" H 2.20" D		
	0.43 W X 3.03 11 X 1.87 B	8.17" W x 11.27" H x 5.87" D	0.30 W X 2.30 11 2.20 D		
Panel Cut Out	DIN 43 700 - 137mm W x 68mm H				
	5.39" W x 2.68" H	-	-		
Case Front	PMMA & Elastomer	PMMA & Elastomer/ SS 304	PMMA & Elastomer		
Case Rear	ABS Flame Retardant, UL94V0	SS 304	ABS Flame Retardant, UL94V0		
Packing Weights	~0.4kg/0.9lbs	~2.7kg/6lbs (DC version)	~0.4kg/0.9lbs		
		~2.9kg/6.4lbs (AC version)			
Mounting	Panel & Desk	Wall, Desk & Pole	DIN Rail		
Dust Cover	Stainless Steel cover, Accessory M5001	-	-		
IP Rating	-	IP65	-		
Physical Seal	Accessory	Security Screw (Packed) + Wire Seal	Accessory M5009		

Specifications may change at any time without notice



C520





C530



C530 with Load Cell DB9 Cover (Cover provided as standard)

Showing Load Cell DB9 Connection





C520 with Modules fitted
AC Module (M5104), Analogue Module (M5401) &
Loadcell Adaptor

Dust Cover (M5001)





Desk stands fitted (provided standard)

Stacking of C520s using desk stand and clips









