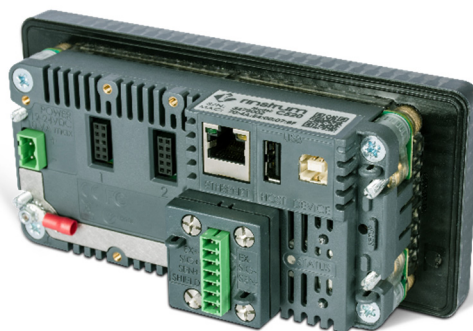


C500 Series – Data Sheet



- 16 x 350Ω load cells
- AC and DC versions
- Ethernet and USB host and slave standard
- 10,000d @ 0.5 μV/d
- 8 set points (option)
- Analog module with 2 isolated outputs (option)
- High contrast LED display
- Three programmable function keys
- Totalizing, Hold and Peak Hold
- MODBUS TCP/IP, ASCII, RTU
- Lua programmable
- 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 weighing controller design, bringing innovation together the best of our 5000 Series with the best of our R400 Series.

Two models are available in the C500 Series. The C520 has a high contrast LED display and 6 button keypad. The C530 the same unit, 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 Model 5000. Ideal applications for the C500 Series include truck weighing, process control, OEM, and programmable solutions using the embedded Lua scripting engine.

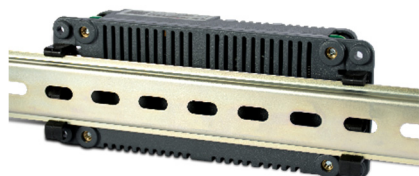
Connectivity

USB Host and Slave, Ethernet and Modbus are standard -

- USB Keyboard, printer, mass storage and serial connections
- Multi-unit Ethernet network connection to a PC or HMI via USB
- Connection to PLC using Modbus or Analog output module
- Ethernet or magnetically coupled rinLINK provide a temporary connection to a laptop for configuration and diagnostics

Modules

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



Smart Weighing – C530

- Ideal for DIN rail mounting
- Setup via the PC using ViewC500
- rinLINK connector on the rear for quick temporary connection to the PC

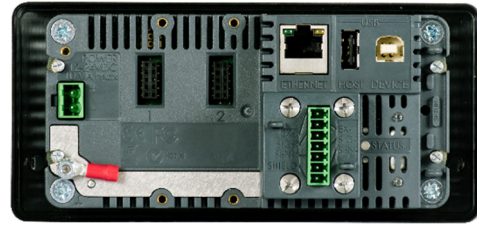
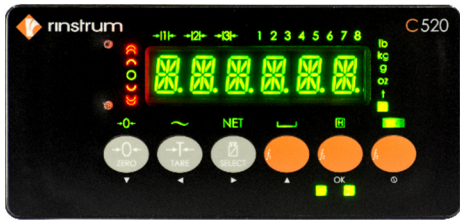
C500 Series Specifications

Specifications	C520	C530
Resolution	Up to 100,000d, minimum of 0.05 μ V/d	
Approvals	CE, C-tick 10,000d @ 0.5 μ V/d OIML R76	
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 4-wire or 6-wire plus shield	
A/D Type	24-bit Sigma Delta 8,388,608 internal counts	
Nominal Environment	Temperature -10 to +40°C (14 °F to 104 °F)	
Operating Environment	Temperature -10 to +60°C (14 °F to 140 °F)	
Storage	Temperature -40 to +70°C (-40 °F to 158 °F)	
Display	13.8mm tall (0.543") Green LEDs 6 x 14-segment digits	None, connect via USB to PC software, ViewC500 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 (Accessory)	110-240VAC 50-60Hz ~0.6A Accessory M5104, includes 12VDC output	
Connectivity		
Ports	USB Host: 1, supports keyboard, printers, mass storage, serial ports, powered hub	
	USB Slave: 1, operates as USB serial port	
	Ethernet: 1 x 10/100 Interface	
	rinLINK magnetically coupled infra-red port front and rear facing	rinLINK magnetically coupled infra-red port rear facing only
Accessories		
No. of Option Slots	2	
8 I/O Module Set Point Card	8 x Isolated (>500V) digital I/O control points High Side FET Outputs will drive up to 400mA each High Side inputs (12-24V) Accessory M5301, Active HIGH	
Analog Output Module Includes 2 I/O Combo Card	1 x Analog output Isolated (>500V) 4-20mA or 0-10V. 400Hz update at 1/65,000 resolution. 2 x digital I/O Accessory M5401	
Serial Modules	Accessory M5201, RS232/RS232 Isolated Accessory M5203, RS485/RS485 Isolated Bi-directional with secondary transmit only	

Features		
Set Points	8 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 Zero, Tare, Gross/Net, 3 x function	controlled via PC software
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, HBM, Modbus ASCII, RTU, TCP/IP	
Mechanical		
Case Size	164mm W x 77mm H x 64.8mm D 6.45" W x 3.03" H x 2.55" D	162mm W x 65.6mm H x 56.1mm D 6.38" W x 2.58" H 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	
Case Rear	ABS Flame Retardant, UL94V0	
Packing Weights	~0.4kg	~0.4kg
Mounting	Panel & Desk	DIN Rail
Dust Cover	Stainless Steel cover, Accessory M5001	-
Physical Seal	Accessory M5009	

Specifications may change at any time without notice

C520



C530



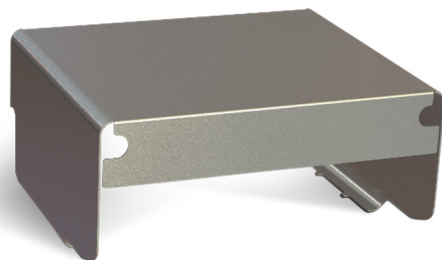
**With Load Cell DB9 Cover
(Cover provided as standard)**

Showing Load Cell DB9 Connection



**With Modules fitted
AC Module (M5104) & Analogue Module (M5401)**

Dust Cover (M5001)

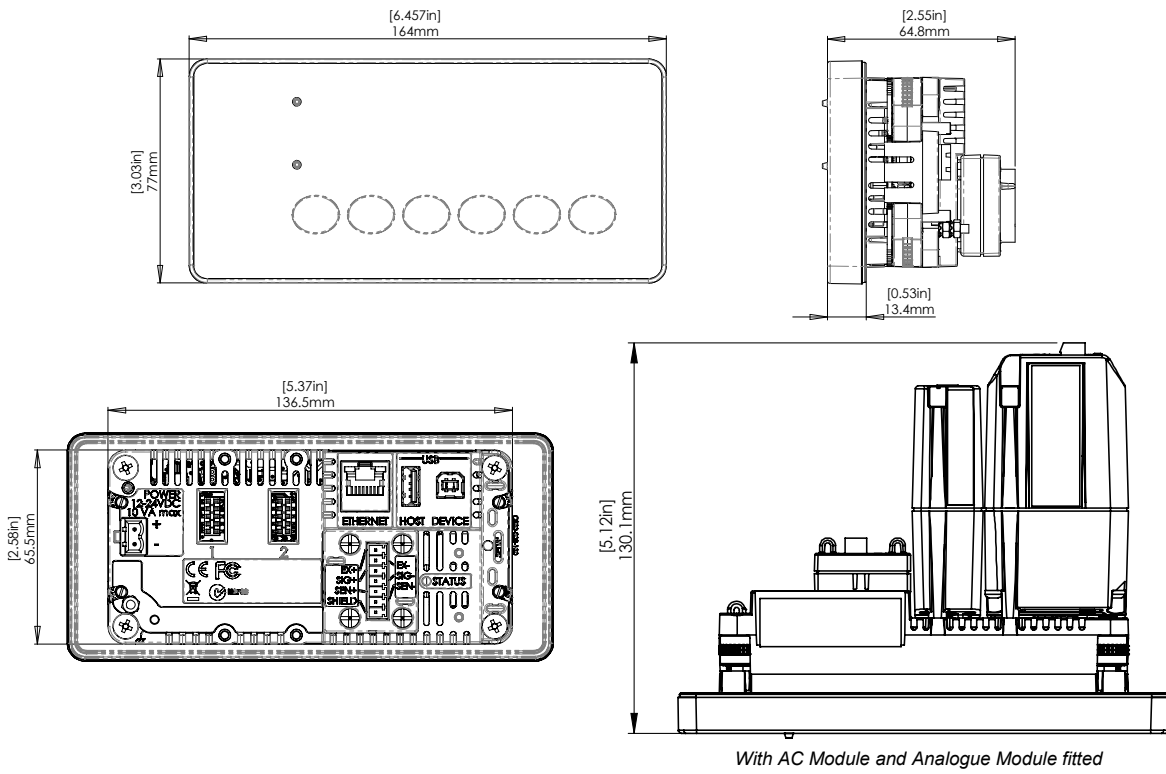


Desk stands fitted (provided standard)

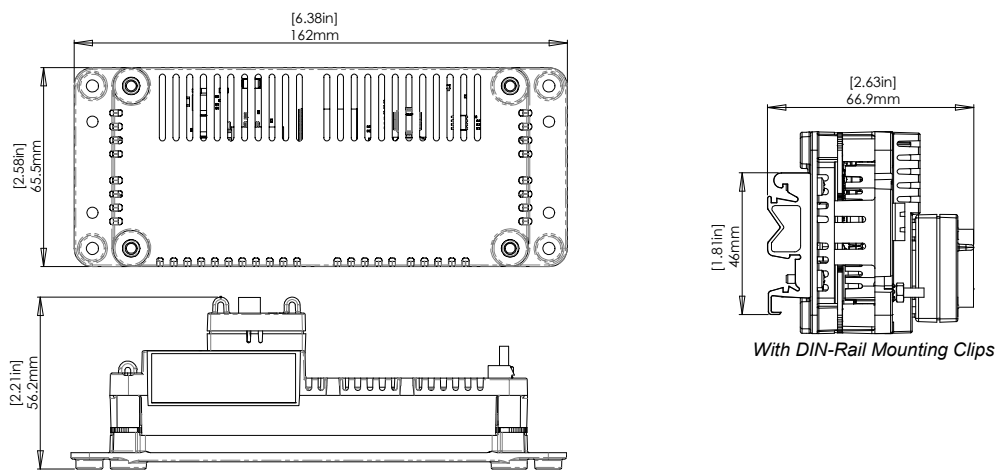
Stacking of C520s using desk stand and clips



C520



C530



Dust Cover (M5001)

