T- Series Modules – Data Sheet
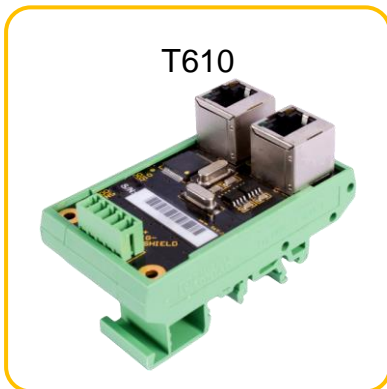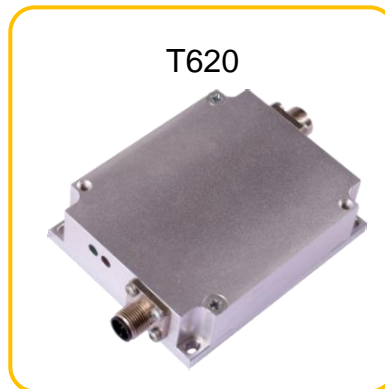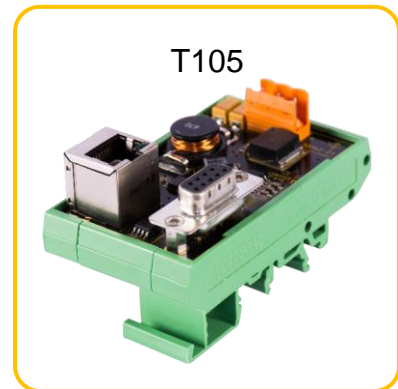
T610	T620	T105

- Digital weigh transmission using standard RS485 serial communication.

- RJ45 connectors for Indoor.

- M12 waterproof connectors for outdoor.

- 8-way cat5 cables of POE Standard connections.

- Supports ring, tree, star and custom network topologies.

- Up to 31 Devices can be connected.

The T6xx modules are Digital weight transmitters that use the rinWIRE interface which implements RS485 serial communication protocol to connect devices in a ring network.

Protocol uses ASCII characters with a single master POLL / RESPONSE message structure.

Each sensor regenerates the communication signals so there is no need for network termination devices to balance the network as with standard RS485.

Digital weight transmitter

Indoor:

- T610 modules are designed for indoor use.
- RJ45 connectors are used for connections.

Outdoor:

- T620 modules are designed for outdoor use.
- M12 connectors are used for connections.
- Rugged potted metal housing.
- IP68 rated.

RinWire interface converter

- T105 Protocol Board to convert Standard RS232 to RS485.
- With external power supply.
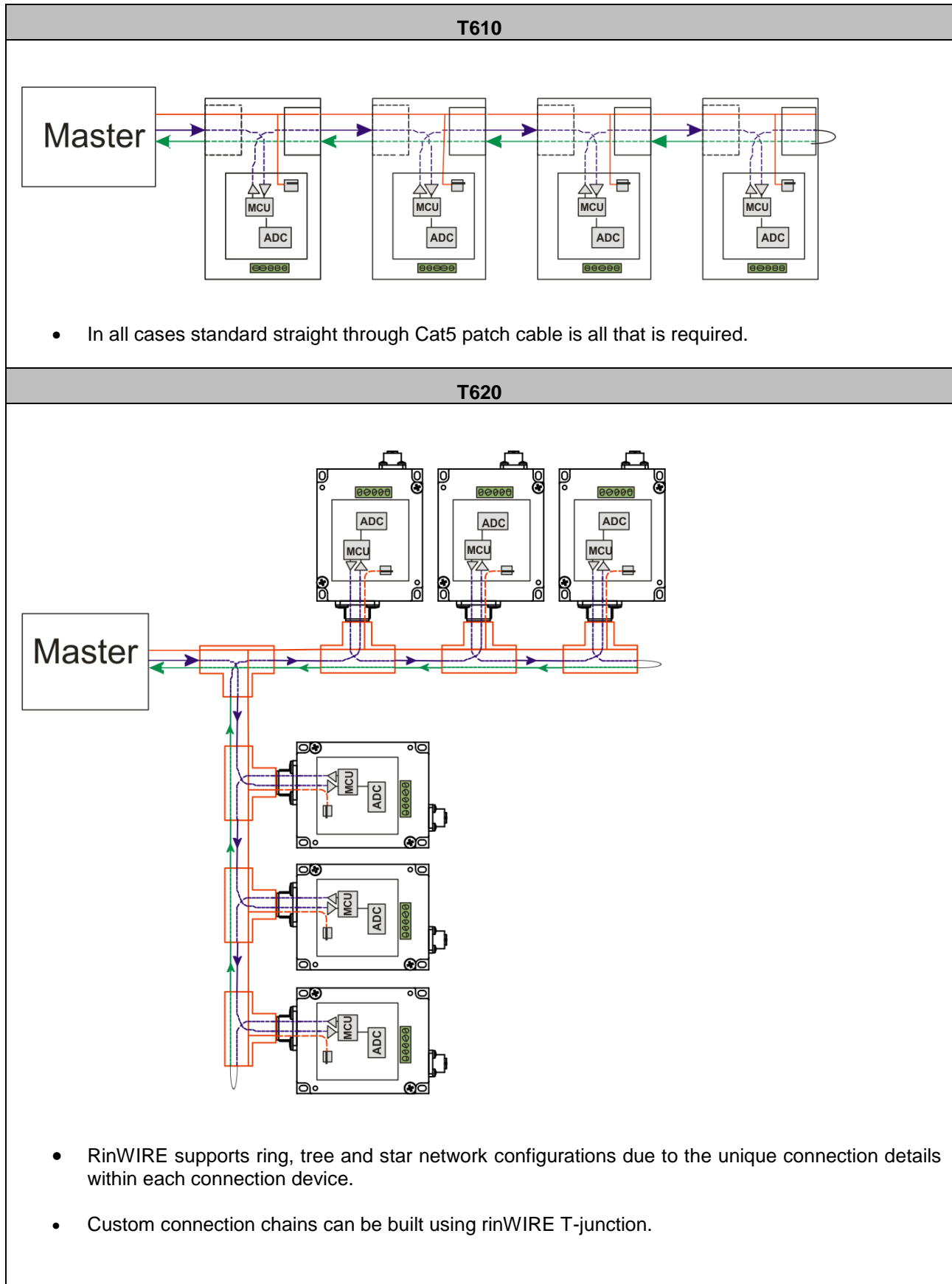- Reverse Polarity and short circuit protected.

T620/T610 more than just weight transmitters.

- Connect them to RINSTRUM R300 viewer.

- Do calibrations (mV/V Factory/Direct mv/V/ Test weight).

- Virtual key access for Zero, Tare and Gross/Net.

- Get weight displayed with standard weight status.

…now that's smart weighing

Network connections using rinWIRE protocol

T610

- In all cases standard straight through Cat5 patch cable is all that is required.

T620

- RinWIRE supports ring, tree and star network configurations due to the unique connection details within each connection device.

- Custom connection chains can be built using rinWIRE T-junction.

Specification Table Digital Weight Transmitters

	T610	T620
Resolution	min 0.25 µV/division	
Zero Cancellation	±2.0 mV/V	
Span Adjustment	0.1mV/V to 3.0mV/V full scale	
Excitation	5VDC for up to 4 x 350 ohm loadcells	
A/D Type	24 Bit Sigma Delta – 8,388,608 internal counts	
Operating Environment	Compensated: –10°C to +50°C	Operating: –20°C to +60°C
Digital Filter	FIR: 80 dB, FIFO: 100 sample	
Conversion Rate	20-100 Hz	
Stability/Drift	Zero: < 0.1 µV/ºC (+ 8ppm of deadload max) Span < 8 ppm/ºC, Linearity < 20ppm, Noise < 0.2 µVp-p	
Power input	7 – 15 Vdc in (Power-over-Ethernet standard)	
Interfaces	Serial In\Out: RJ45 Load cell: 5 pin Dinkle connector	Loadcell - 5 pin M12 connector Serial Conn. - 8 pin M12 connector
Dimensions	77 x 44.9 x 42 mm 3.03 x 1.76 x 1.65 in	129 x 80 x 26 mm 5.07 x 3.15 x 1.02 in
Weight	60g 2.11 oz	440g 15.52 oz
Mounting	DIN Rail mounting	Wall mounting
Case Materials	Polyamide	Aluminum
	Indicator Application Software	
Resolution	Max 60,000 weight divisions	
Virtual Keys	Zero, Tare, Gross/Net	
Weight Status	Overload, Underload, Error, Motion, Centre-of-Zero, Zero Band	
Virtual LCD Interface	Rinstrum R320 Emulation	
Virtual Setpoint	2	
Calibrations	mV/V Factory Calibration, Direct mV/V calibration commands, Test Weight calibration commands	

Specifications are subject to variation for improvement without notice - Illustrations are indications only and variation may be evident between products
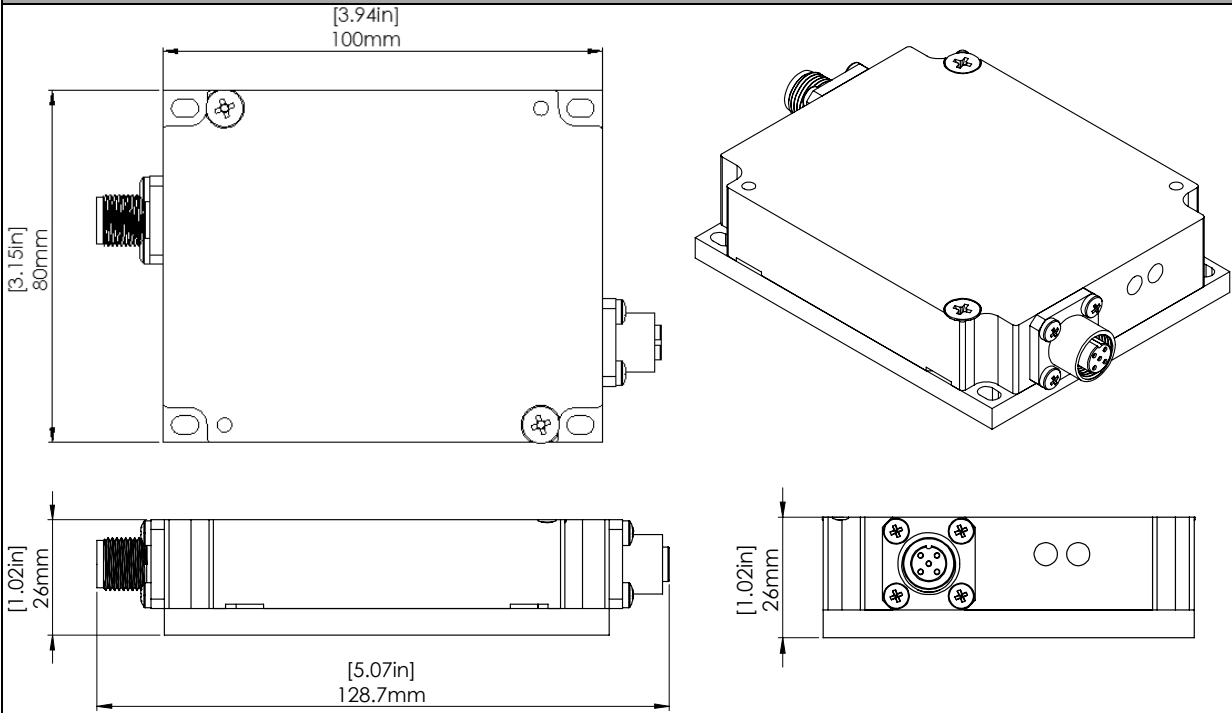
Specification Table rinWIRE Interface Converter

	T105
Power	12-24VDC in, 7.4 VDC out at 2A Reverse Polarity and short circuit protected
Serial Interface	Convert Standard RS232 to Rs485
Connectors	RS232 – DB9-F serial connector RS485 – RJ45 connector
Operating Environment	Compensated: –10°C to +50°C Operating: –20°C to +60°C
Dimensions	77 x 44.9 x 42 mm 3.03 x 1.76 x 1.65 in
Weight	60g 2.11 oz
Mounting	DIN Rail mounting
Case Materials	Polyamide

T-Series Module Dimensions.

T105

T620

[3.94in]
100mm

[3.15in]
80mm

[1.02in]
26mm

[5.07in]
128.7mm

[1.02in]
26mm

T610

[1.68in]
42.7mm

[1.76in]
44.9mm

[2.76in]
70mm

[3.03in]
77mm

[1.65in]
42mm

[0.48in]
12.2mm

[2.35in]
59.6mm

[1.09in]
27.7mm

[0.79in]
20mm