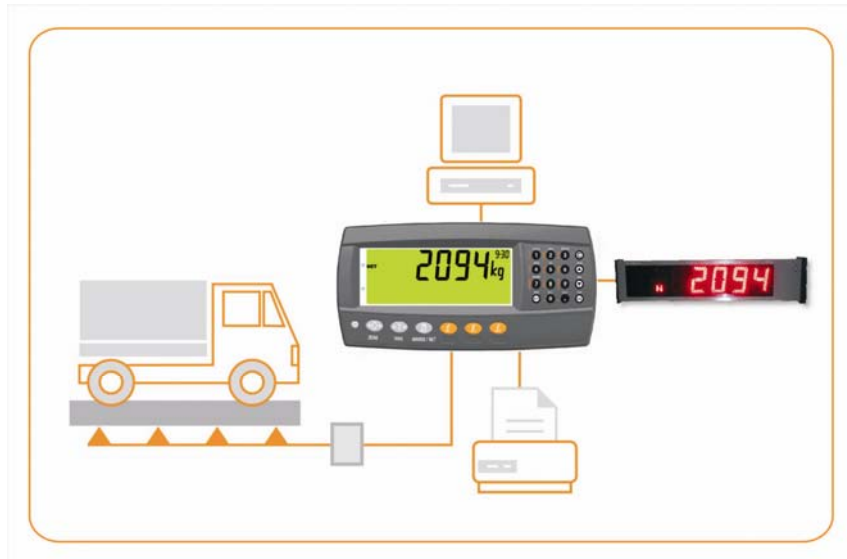


Application Note: R42x-K401 Single Deck Weigh Bridge

Application:



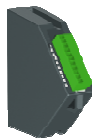
A single deck weigh bridge can be configured with either an R42x-K401 or K402. The K402 would be used in the case where truck id's were stored as it supports 250 products.

- The onboard RS232 serial port would be used to support the printer.
- The M4202 RS232/RS485 module would be used to support a computer and remote display.
 - The isolated RS232 would be used for a computer
 - The isolated RS485 transmit only port would be used for a remote display.
- The D740-6A super bright LED (or D640-6A E/M) is recommended as annunciators would be required on a trade approved installation.
- One or two summing boxes would be required depending on the number of load cells used.
- Up to two (2) from the six (6) standard print formats can be selected or custom print strings can be used.
- Along with standard auto transmitting formats, the two auto formats can be customised.

Components:



R420-K401-A
R42x General Purpose
Indicator



M4202
RS232/RS485 Module



0071
Summing Box, 6 L/C
Input. Expandable





D640-6A-C (shown)
Or D740-6A-C
Large Remote Display

*Note1 Either R420s ABS or R423s flush stainless steel housing could be used.

*Note 2 Large remote display can be ordered with either DC or AC supply requirements

Operation:

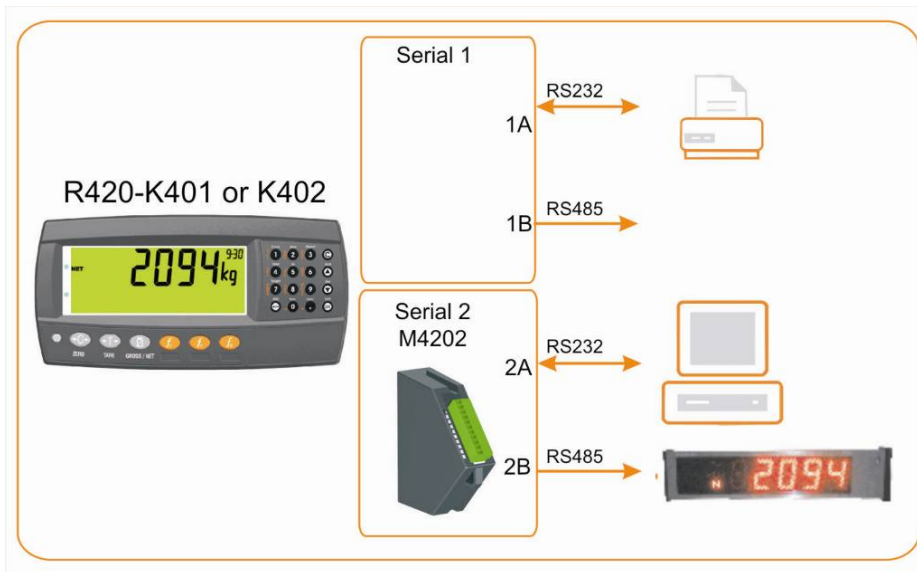
1. Set up	2. Truck Drives On	
Enter preset tare if required	K401 Display 	If DUAL display setting is used 
		Where both the gross and net weights are to be displayed the VIEW setting would be DUAL

Error Condition

The remote display will show a blanking screen (-----) using dashes if there is an error on the indicator

3. Print Docket or Record		
Press F1 Print Key	Record Print - FMT.B	
The print out can be a simple preset one or customised to include specific information and formatting.	<pre> Joe's Gravel 01/01/2003 9:30 ID: 001234 T: 3000 kg G: 5094 kg N: 2094 kg Thank You! </pre>	

Configuration:



R420-K401 (or K402) Set up

(To enter the setup mode, hold down the **Power** and **F3** key for a few seconds.)

FUNC:NUM	1 or as required
FUNC:SF1	TYPE to PRINT KEY to F1 or as required
H.WARE:SER1.HW	BAUD 9600 PARITY to NONE DATA to 8 STOP to 1 DTR to ON (connect to paper out detect on printer)

App Note

H.WARE:SER2.HW	BAUD 9600 PARITY to NONE DATA to 8 STOP to 1 DTR to OFF TERM to ON
PRINT:PRINT1:SERIAL	Connection to Printer (other print settings to be set as required) SER1A
SER.NET:TYPE	PROTOCOL.B
SER.NET:SERIAL	Connection to Computer SER2A
SER.AUT: NUM	1
SER.AUT:AUTO.1	Auto output to remote display TYPE to AUTO.LO SERIAL to SER2B FORMAT to FMT.C or as required

Remote Display Dipswitch Settings

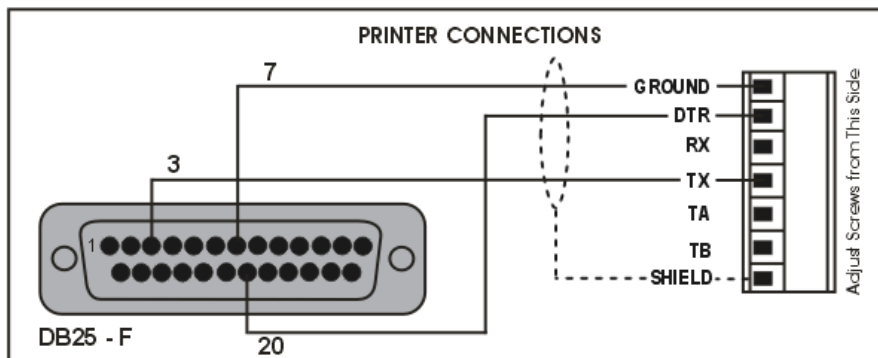
	Address	Address	Address	Protocol Group	Protocol Group	Lock Comms	Display Font	Decimal Point Treatment
DIPSWITCH	1	2	3	4	5	6	7	8
	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
<i>Explanation</i>	BROADCAST			PROTOCOL GROUP 0			*	**

* On a D640 block or curved font can be chosen

** On a D640 (E/M) a full digit will be used to for the decimal point and on a D740 the decimal point will be displayed if one is being sent.

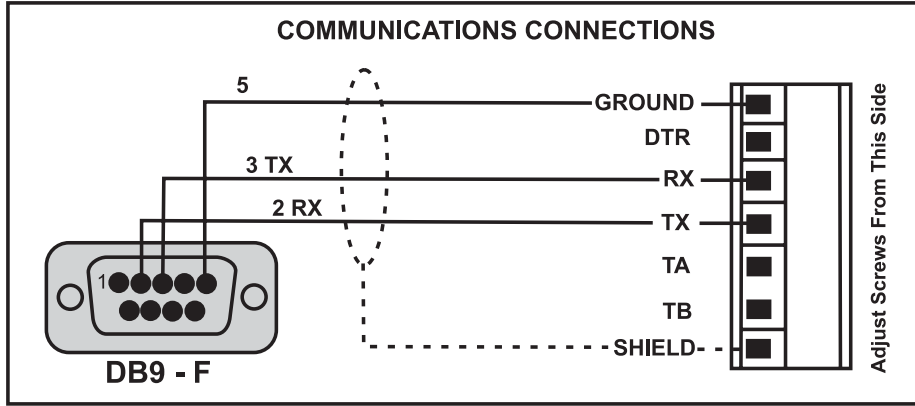
Wiring

RS232 Serial - Printer Connections (TX, DTR and GND) – Serial1A on the R420 in this application



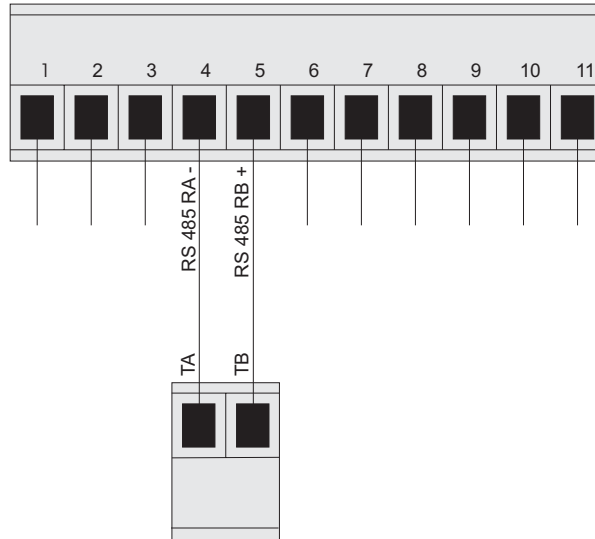
RS232 – Instrument to Printer (DB25)

RS232 Serial - Direct PC Link (RX, TX, GND) – Serial2A on the R420 in this application



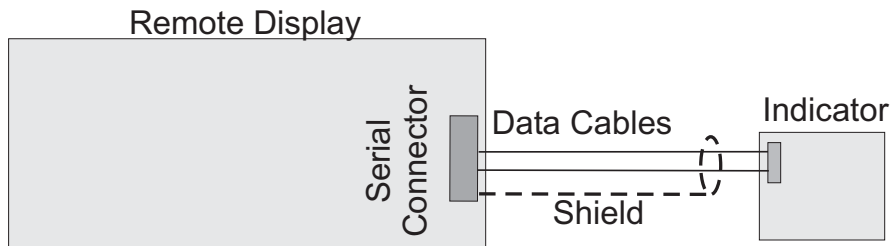
RS232 - Instrument to PC using COM Port (DB9)

RS485 Connection to Remote Display – Serial2B on the R420 in this application



** Note for D740 super bright LEDs - to dim the LED display short pins 10 and 11 for internal applications as required, control with the external switch if required.

Earthing on Remote Display – Shield Pin 1 on Remote Display



For more information refer to the Reference Manual for these products