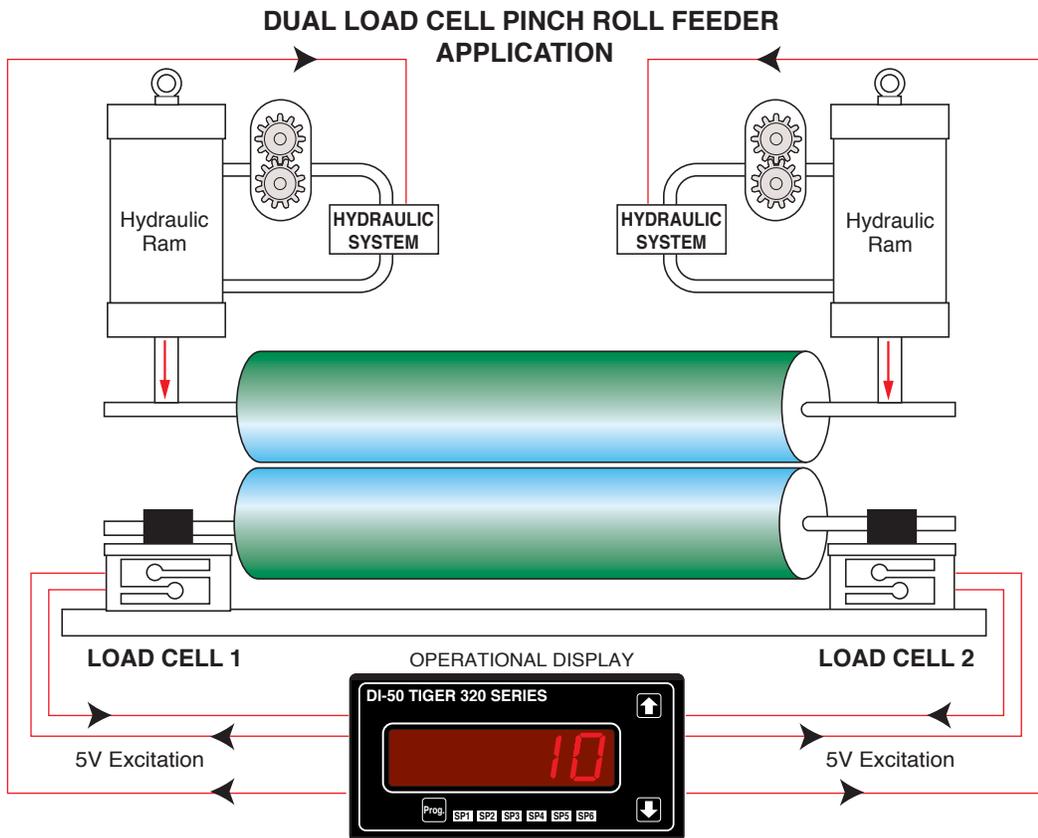


Our customer has a feed roller system. They require to monitor and maintain a constant pressure between the two ends of the bottom roller to maintain a straight feed. The bearings at each end of the bottom roller are mounted on a separate load cell. The output from each load cell is connected directly into a Tiger 320 Series controller.

The controller displays the difference in pressure between load cell 1 and load cell 2. If load cell 1 is lower than load cell 2, the controller displays the negative difference. If load cell 1 is higher than load cell 2, the controller displays the positive difference. If both pressures are equal, the controller displays 0.



APPLICATION FUNCTIONS	
RELAY OUTPUTS	
ANALOG OUTPUTS	
CALCULATIONS	
SEQUENCE CONTROLS	

RESULT
Displaying differential pressure between LOAD CELL1 and LOAD CELL 2

VIEW MODES



CHANNEL 1
Press the UP button to display LOAD CELL1 pressure.



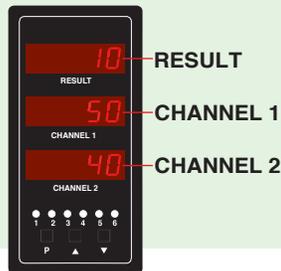
CHANNEL 2
Press the DOWN button to display LOAD CELL2 pressure.

INPUTS	
DUAL LOAD CELL	

OPTIONS & VARIATIONS

- A Tiger 320 Series controller can be used to control the hydraulic pressure system:
 - A 4-20mA PID output from the controller can be used to precisely control the pressure to the hydraulic ram.
 - All data can be captured and transmitted to a control and monitoring system.

DI-503E Controller



- Use a DI-503 to display differential pressure, load cell 1 pressure, and load cell 2 pressure at the same time.

LOAD-CELL PRESSURE	
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Suggested Ordering Code Options for This Application

Basic Order Codes	Comments
DI-50E-DR-PS1-IDS1-OR12	Single display to show differential. UP to see LC1, Down to see LC2.
DI-503E-DR-PS1-IDS1-OR12	Three display to show Defferential, LC1 and LC2.