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# WEIGHING/FORCE MEASURING CONTROL MODULE

## DS667A5 (Rail Type)



- **Weight/Force Display**
- **Peak value detection and hold facility**
- **Digital outputs**
- **Analog output**
- **Digital communication port**

This versatile controller accepts mU/V/mA input and can give out digital outputs to control various elements like gates, valves, conveyors, hoists, etc. The DIN rail mounting is perfectly suitable for OEM's to mounted in their existing panels. It has built in software filter to work in high vibration environments suitable for cranes, mixer weighing, agitators and other noisy industrial environments.

It can be used for applications like Hopper Weighing System, Tank Weighing System, Force Measurement System, Crane Weighing System etc.,

# Technical Specifications

## DISPLAY

6+6 Red LED display  
 Weight Display Range : -9,999~+99,999  
 Scale Capacity : Setting Range 1~99,999  
 Scale Division : Optional 1, 2, 5, 10, 20, 50, 100, 200, 500  
 Display Resolution : 1/50,000  
 Decimal Point Position : Optional 0, 0.0, 0.00, 0.000, 0.0000  
 Display Refreshing Time : Setting Range 0.01~1.00s

## KEYPAD

4-key Keypad

## WEIGHING SIGNAL INTERFACE

Excitation Voltage/Max. Current: DC5V/120mA [8-350Ω loadcells]  
 Signal Input Range: 0~12.5mV  
 Output Sensitivity of Loadcell: 1.0~2.5mV/V  
 24-bit  $\Sigma$ - $\Delta$ ADC with internal resolution 1/1,000,000  
 Optional Sampling Frequency: 1600Hz, 800Hz, 400Hz, 200Hz, 5Hz  
 Special Anti-vibration Digital Filtering Algorithm for precise weighing, stable display and rapid response  
 Zero Drift:  $\pm 0.1\mu\text{V}/^\circ\text{C}$  RTI (Relative to Input)  
 Gain Drift:  $\pm 5\text{ppm}/^\circ\text{C}$   
 Non-linearity: 0.005%FS

## SWITCH SIGNAL INTERFACE

3 Optional & definable normally open switch inputs [DI]  
 3 Optional & definable normally open transistor switch outputs [DO]: DC24V, 250mA

## ANALOG SIGNAL INTERFACE

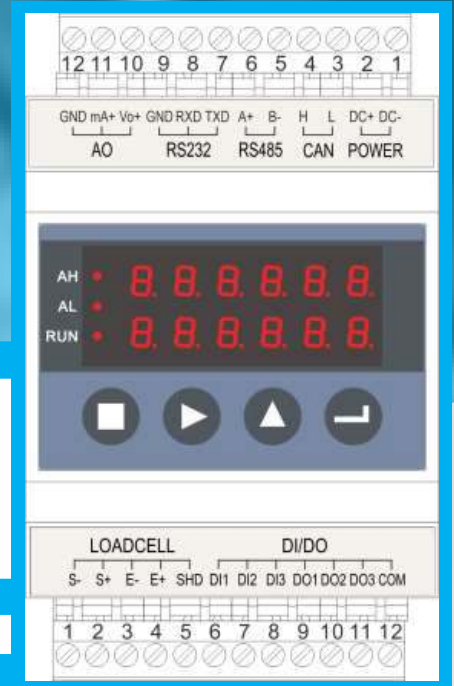
1 Optional & definable current signal output [AO: 0~20mA], Non-linearity : 0.05%FS  
 1 Optional & definable voltage signal output [VO: 0~10V], Non-linearity : 0.05%FS

## DIGITAL COMMUNICATION INTERFACE

COM1 : RS232  
 COM2 : Optional RS485

## OPERATING SPECIFICATION

Operating Voltage : DC24V $\pm$ 20%  
 Max. Power Consumption : 3W  
 Outline Size : 71.5 $\times$ 115.6 $\times$ 57.9mm [W $\times$ H $\times$ D]  
 Guide rail type installation  
 Guide Rail Groove Size : 35 $\times$ 1.6mm [W $\times$ D]  
 Operating Temperature : -25 $^\circ\text{C}$  to +45 $^\circ\text{C}$   
 Storage Temperature : -30 $^\circ\text{C}$  to +60 $^\circ\text{C}$   
 Relative Humidity : Max. 85%RH  
 Weight : Approx. 167g



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