

AMPLI-Block⁺

UNIVERSAL AMPLIFIER

MEROBEL

Torque & Tension control

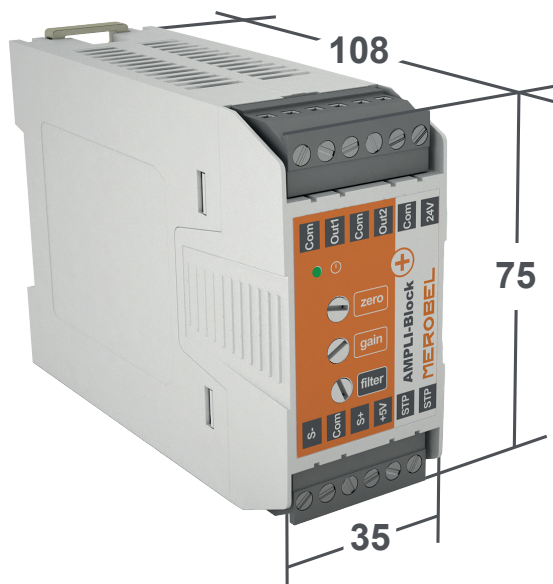
- > Wide range of Amplification
- > Direct & filter outputs
- > Suitable for foil & semi conductor gages load cells



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- > The universal solution, suitable for one or two load cells.
- > Simple setting up with zero & gain adjustment (gain x20 to x10000)
- > Direct output signal for quick response application
- > Filter output signal for noise attenuation

DIMENSIONS



TECHNICAL FEATURES

Reference		ME135691-00
Input voltage	[V DC]	24 (20→35)
Max power consumption	[VA]	3
Strain gages bridge supply	[V]	5 DC
Output voltage	[V]	0 to 10 DC
Current (output voltage)	[mA]	< 5
Zero compensation		±50% of FS
Time drift		< 1%
Room temperature	[°C]	-10→+40

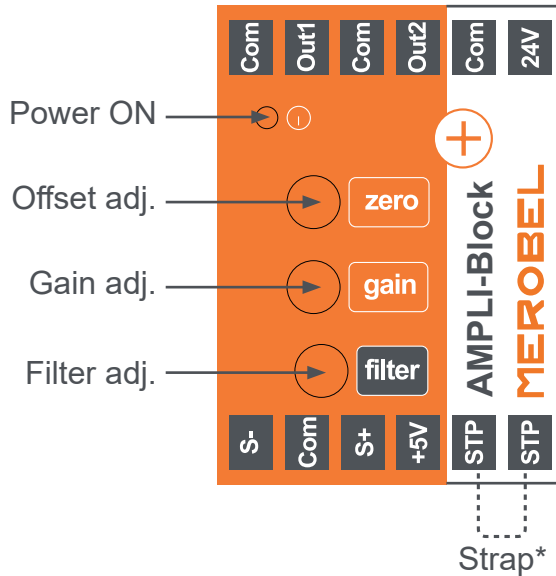
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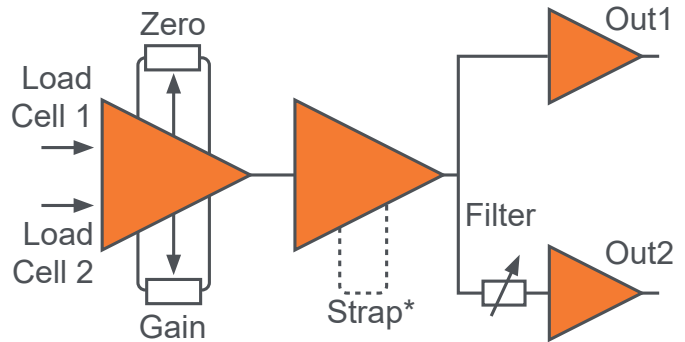
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SETTINGS

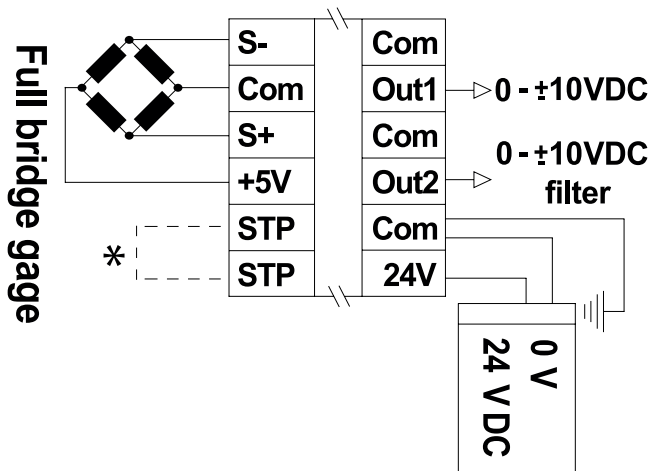


PRINCIPLE



*Strap the two STP terminals to access lower gain (case of high signal level)

CONNEXIONS



Out1	Direct output signal U _a (0→±10V DC)
Out2	Output signal filtered U _b (0→±10V DC)
Com	0 V / equi-potential supply point
24V	Supply : 24 V DC
S-	Signal sensor -
S+	Signal sensor +
+5V	Supply sensor(s)
STP	*Strap for gain selection

No strap → High gain for typical 2mV/V signal and lower
 Enable strap → Low gain for semi conductor gages typical 50mV/V and higher

CALIBRATION PROCEDURE



No load : set 0v with zero adjustment



Simulate max load by hanging a weight on a string following the product path.
 Set 10v with gain pot adjustment.



Remove load (totally free) and reset 0v with zero pot adjustment.



Calibration is done.
 Check that voltage follows the weight variation.
 It is possible that you need one extra setting to ensure accurate measurement.