

## ARLL Analogue Readout Load Limiter



The Gigasense ARLL Analogue Readout Load Limiter provides two easily changeable load limits and LEDs to quickly make you aware of an eventual overload. The analogue display further enhances your control of the load.

In combination with Gigasense force transmitters, the ARLL forms a complete overload protection system. This high quality, robust, maintenance free system is often operated in heavy duty bulk transportation in open mining sites.

This compact electronic control unit is ideal as Overload Protection System in any heavy duty lifting environment.

The ARLL was originally designed for continuous monitoring of signals (0-10V) from a Gigasense Dynamometer with built-in potentiometer.

### GIGAsense

Gigasense products within Force Measurement and Crane Safety are well known high quality products, built from many years' experience and used by leading heavy duty industry around the world.

Gigasense products meet the highest demands of performance level requirements.

We are represented by many selected local partners in more than 30 countries on six continents.

# ARLL Analogue Readout Load Limiter

## Function

The ARLL Analogue Readout Load Limiter is much appreciated for the facility with which you change the load limits and for its distinctness when a load limit is reached and the corresponding LED is lit. The analogue scale is important in the dusty environment of open mining, to know the load at a quick glance.

The output of the ARLL is equipped with two relay contacts. The switching point, Limit 1 and Limit 2, are easily adjustable using two potentiometers. The relay contacts are potential free and are connected to a terminal block for external control or alarm or breaking circuits.

The relays in the ARLL are held active when the instrument is powered and the corresponding pre-set limit has not yet been reached. Any limit activated will cause the corresponding relay to fall. Loss of power will cause both relays to fall, and thus initiate an alarm.

In addition to the relay contact output terminals, the ARLL has a voltage output, 0 – 10 V and as an option, current output 4-20 mA, reflecting the actual load. This can be directly connected to a large format digital display.

The turn coil instrument is a 240° ring scale instrument of approx. 150 mm scale length. The size is 96 x 96 mm. This is scaled according to customer wishes.

By the switch on the front panel, you easily check the pre-set limits on the instrument and signal/warning lamps.

The compact ARLL Analogue Readout Load Limiter is built into a polycarbonate box and the front panel is protected by a transparent IP65 door that can be locked.

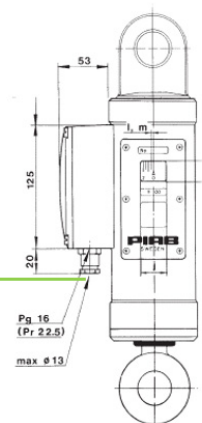
## Example:



ARLL after face lift

With analogue output 0-10VDC (option 4-20mA) for display, remote reading etc.

Potentiometer signal  
0 – 1000 Ohm



Dynamometer with  
Potentiometer



## Technical Data

Power supply:  
24VDC, max 1A

Protection Class:  
IP65

Relay outputs:  
Two potential free relays  
8 A, 250 VAC

Analogue Input 1:  
One channel, 0-10V.

Analogue output 2 (Option):  
Current output signal, 4-20mA.

Display:  
Turn coil instrument 240° ring  
scale. 96x96mm

Two potential free relay  
outputs:  
Max load 250 VAC/8A

Temperature range:  
0-20 to +70°C

Enclosure:  
Polycarbonate (PC)

Dimensions:  
235 x 185 x 120 mm

Weight:  
3 kg

**GIGASENSE**



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