KANAGAWA INSTRUMENTS

Robust Level Display

Model: KRLD



Application

The KRLD is a remote display unit designed for measured value indication and parameter adjustment of 4 … 20 mA sensors, with optional support for HART protocol communication. It can be installed at any point along the signal cable, offering flexible integration into existing measurement loops. Operating as a passive display device within a 4 … 20 mA current loop, the KRLD provides reliable and clear visualization of process values without affecting the signal. When equipped with HART functionality, it enables convenient configuration and diagnostics of compatible field instruments. The unit is optimized for seamless use with radar level transmitters and hydrostatic level transmitters, ensuring efficient and user-friendly remote monitoring in industrial applications.

Features

Time and cost savings during on-site parameter adjustment with KRLD
Reliable and user-friendly operation via clear text display with graphical support
Universal compatibility through standard HART parameters
Optional wireless operation via Bluetooth using smartphone, tablet, or PC, as well as magnetic pen operation through a housing lid with inspection window

Housing and Protection

Robust design suitable for outdoor installations
Optional protection class up to IP68 for use in harsh environmental conditions

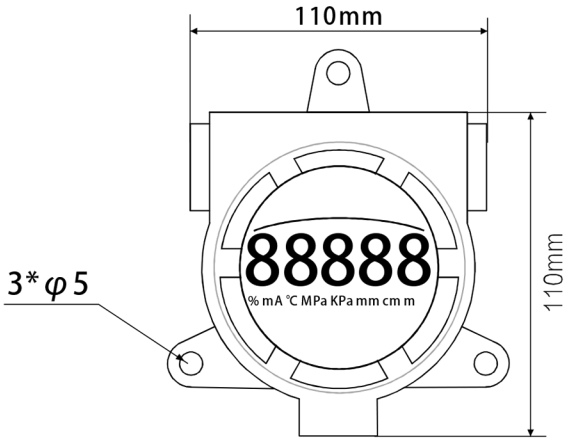
The Instrument Display Side Storage Tank

4-20mA current circuit power supply, no external power supply, measuring range and decimal point can be adjusted

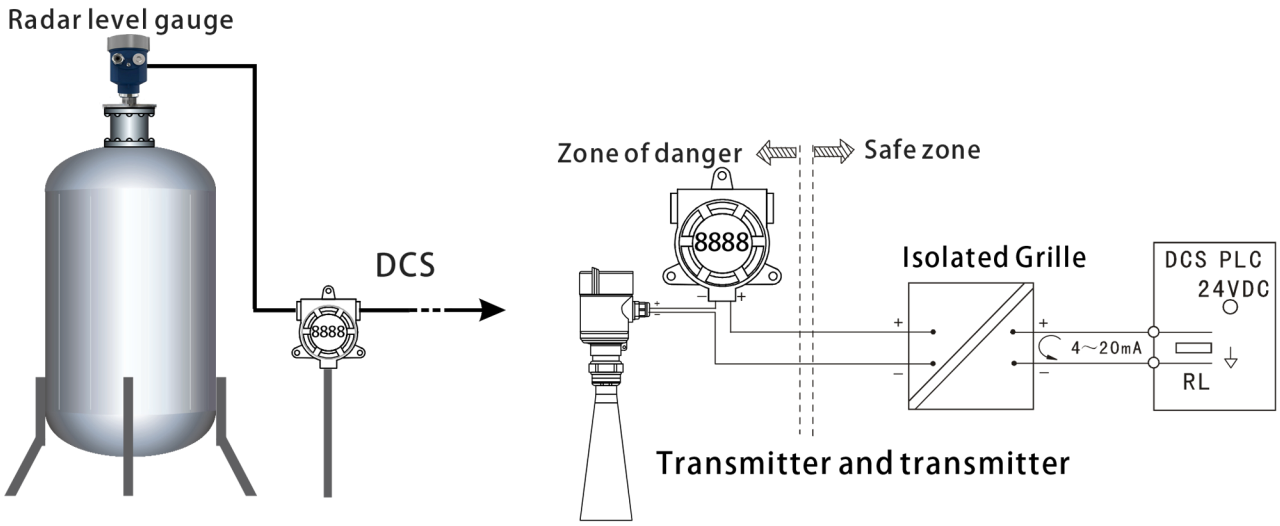
- 0.8 inch wide viewing Angle LCD display, 8 meters clear reading
- Direct sunlight proof liquid crystal, direct sunlight, does not affect the view
- With backlit LCD display, more suitable for night viewing

Technical Parameters

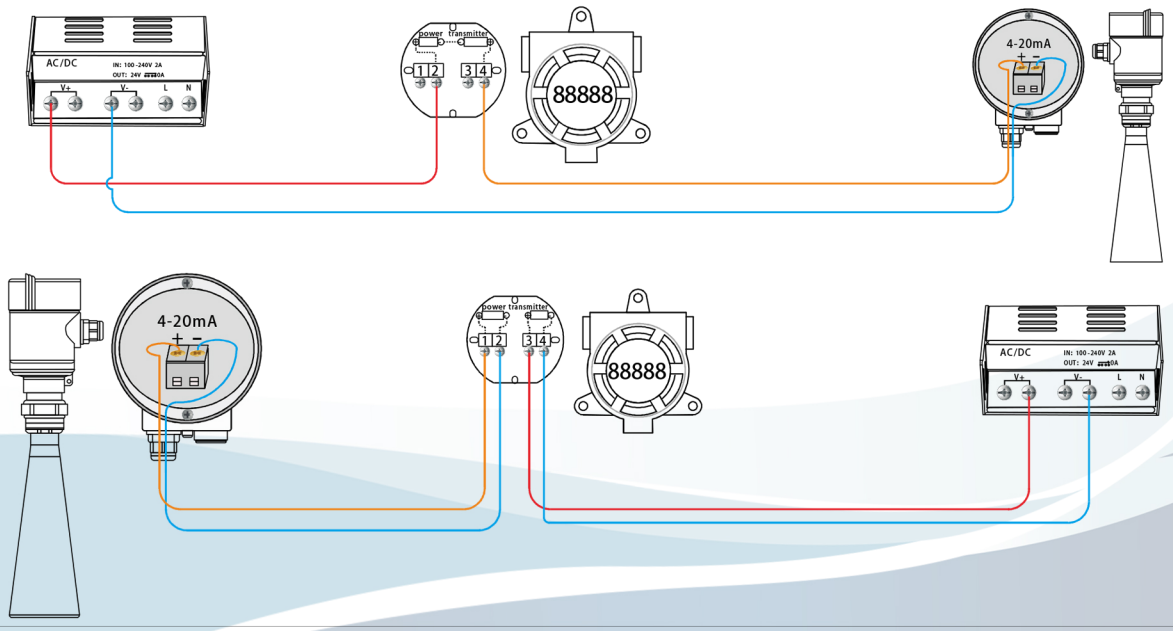
Current of operation：4-20mA；
Minimum starting current：2mA；
Maximum working current：40mA
Range of display：-19999～45000
Precision of display：±0.1%±1
Power consumption：0.1W
Loss of voltage：≤2.8V
Maximum visual range：8M
Working Environment：-30～50℃



Installation diagram

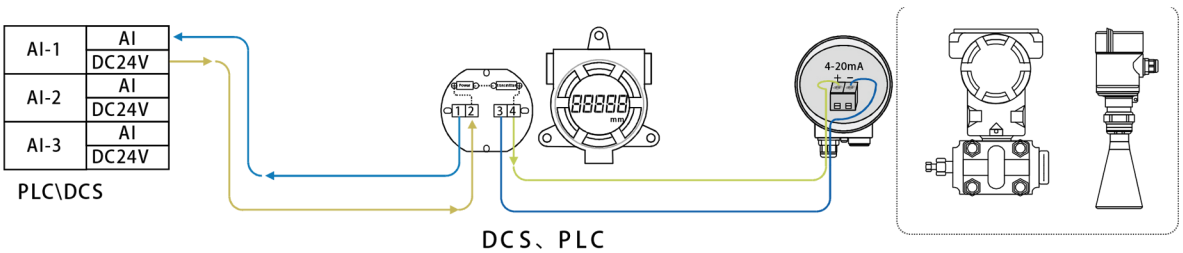


Wiring instructions

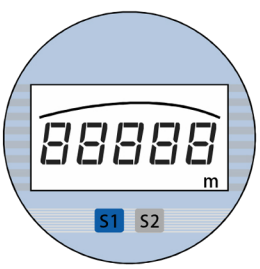


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Technical Parameters



Setting process



Display XXXX

Press S1 for 3 seconds

Parameter prompt	Press S1+S2	
dot	Press S1+S2	point 04000
pl	Press S1+S2	zero 04000
ph	Press S1+S2	Full 04000
filt	Press S1+S2	digital filtering 04000
HOLD	Press S1+S2	Alarm switch OFF
ahiy	Press S1+S2	type of The First alarm XXXX
ah1	Press S1+S2	ALARM VALUE XXXX
sh2y	Press S1+S2	Type of second alarm XXXX
ah2	Press S1+S2	ALARM VALUE XXXX
ahc	Press S1+S2	Alarm Deadband XXXX
COF	Press S1+S2	Unit XXXX

Press S1 (returns to Display)

0	%	5	mm
1	mA	6	m
2	℃	7	cm
3	MPa	8	Blank
4	KPa		

Zero calibration

Due to the display error caused by the inaccurate output signal of the on-site transmitter, the display value can be forcibly reset to zero by simultaneously pressing the S1+S2 keys, such as when the transmitter reaches zero rangeThe output is 4.005mA, and the tank side display shows 0.005. Press S1+S2 simultaneously for eight seconds, and the displayed value will regress to 0.000. This operation does not affect the display of the full scale value.

Installation and fixation

