

# KRC2 VGA (Video Graphics Adapter)

## Description

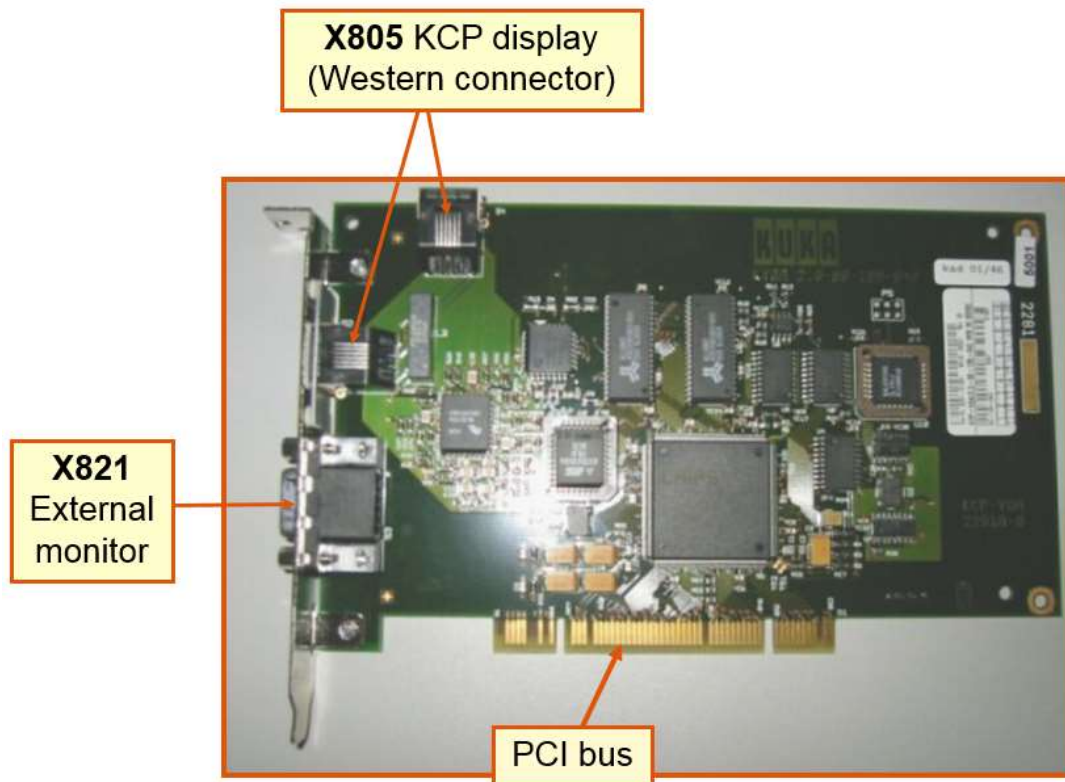
### KRC2 VGA Board

KUKA VGA board for KRC1 controller.  
The board is supplied tested.

The VGA Board provides the following functions on the KUKA Robot:

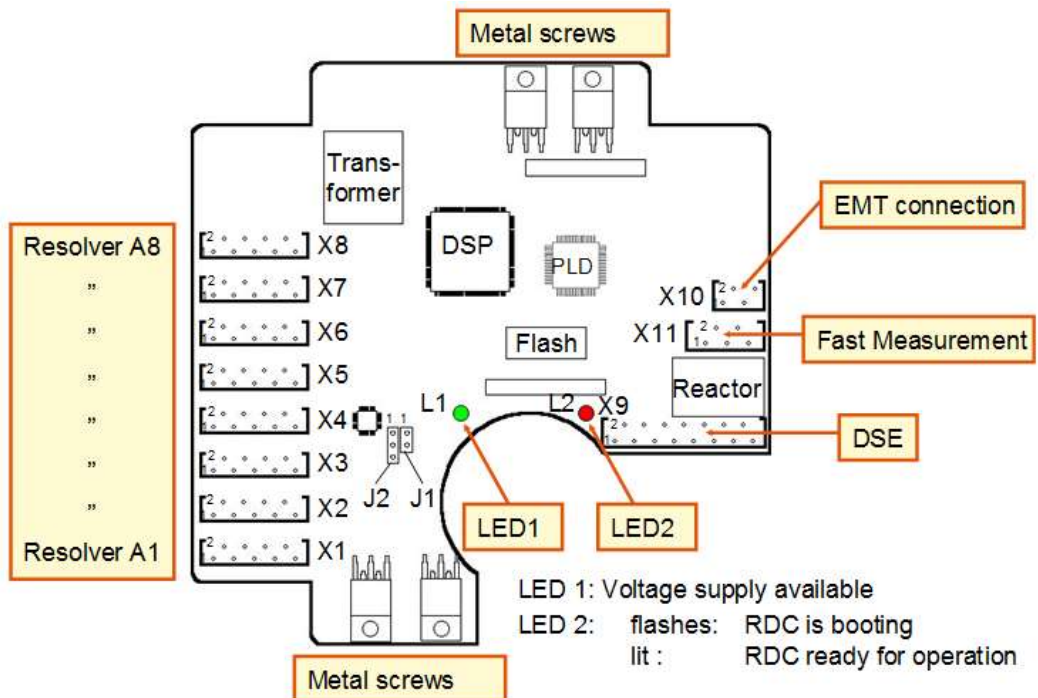
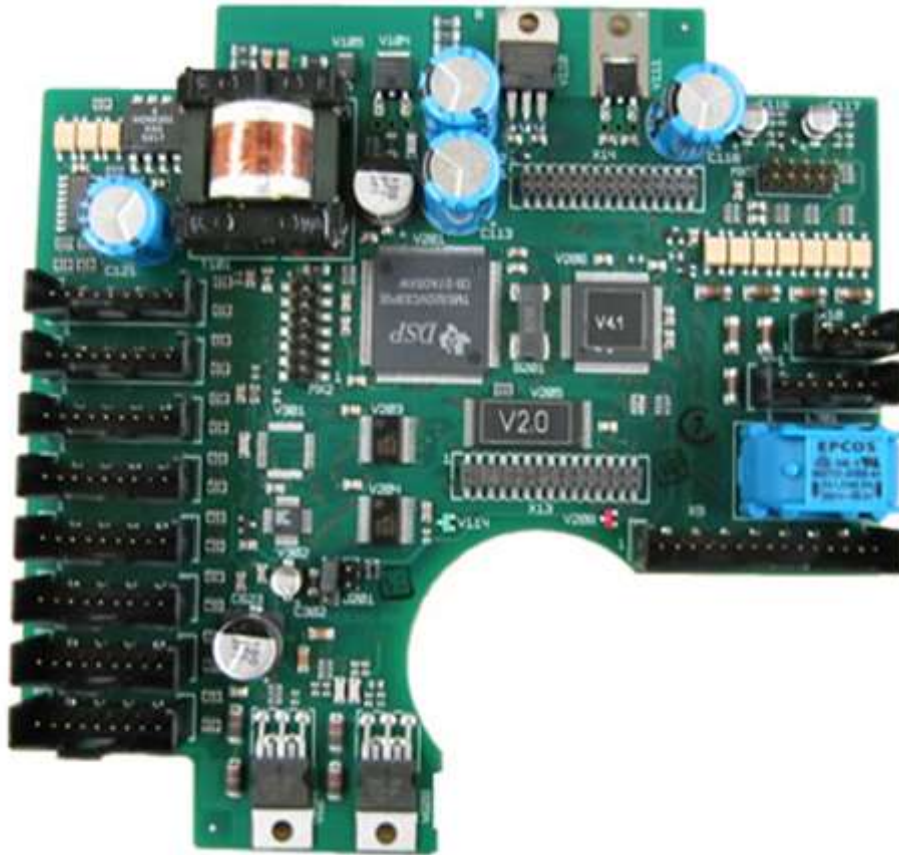
- Connection for the LCD display on the KCP.
- Connection for an external VGA monitor.
- Resolution 640 x 480
- Maximum number of colours 256
- 2 MB graphics memory
- Changing the screen output settings from properties it is possible to choose: from KCP display only, External monitor only or both

For the connections please see below:



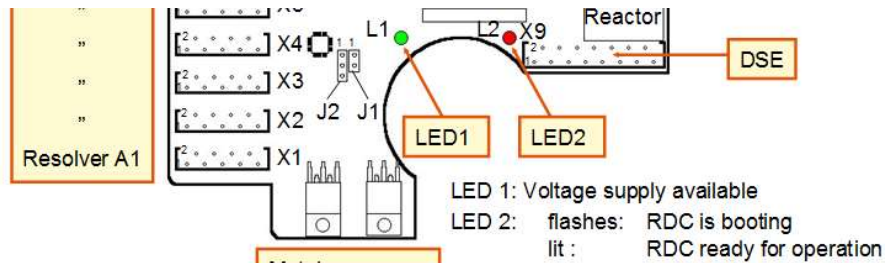
Please contact us for further information.

Below is a diagram of the various connectors:



For diagnostics there are a number of checks that can be done to establish whether the problem lies with the card itself or the resolver.

For the two LEDs see below:



To measure the resistance of the resolver windings see below:

Pin	Assignment
1	KTY
2	KTY
3	Ground
4	R2
5	R1
6	S4
7	S2
8	S3
9	S1

Pin-Pin	Resistance / $\Omega$
1-2	588 $\Omega$ at 25 $^{\circ}\text{C}$ 1000 $\Omega$ at 100 $^{\circ}\text{C}$
4-5	20-100 $\Omega$ , depending on the type of motor
6-7	30-200 $\Omega$ , depending on the type of motor
8-9	30-200 $\Omega$ , depending on the type of motor

For removal of the KSD see the guide below:

The RDC is housed in a small enclosure fixed to the base of the robot

To gain access remove the four screws holding the lid in place



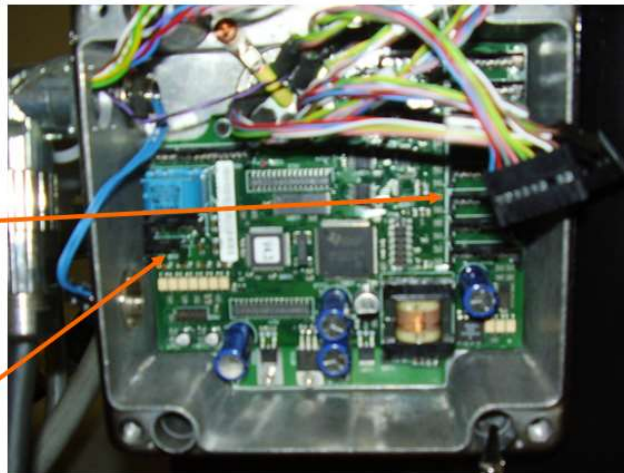
To protect against static discharge all work on the RDC must be carried out with a well grounded earth strap



Disconnect the 6 connectors from the six axes (each one is labeled. Axis 6 this end

Pay careful attention to gently push the plastic tongue to release the connector before pulling the connector from it's socket

Also remove the mastering tool connection and the connector leading to the resolver feedback cable to the robot panel



Please contact us for further information.