

Keithley 2001 repair - Feature #859

Support # 816 (Closed): Schematics recovery for analog board Keithley 2001

Схема аналоговой платы (Keithley 2001-102-04J)

12/13/2013 12:46 AM - tin

Status:	Closed	Start date:	07/10/2014
Priority:	Normal	Due date:	07/11/2014
Assignee:	tin	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	Keithley 2001 #6		
Description			
Subtasks:			
Support # 1131: Schematics for voltage reference LM399			Closed
Feature # 1141: Восстановление источника тока и диапазонов измерения сопротивления			Closed

Associated revisions

Revision 97:a4ddb635100c - 12/13/2013 12:51 AM - tin

Schematics update for J ID #859 @0.1h

Revision 97:a4ddb635100c - 12/13/2013 12:51 AM - Ilya Tsemenko

Schematics update for J ID #859 @0.1h

Revision 98:11809d7e5b46 - 12/14/2013 01:06 AM - tin

Schematics update for J ID #859 @0.3h

Revision 98:11809d7e5b46 - 12/14/2013 01:06 AM - Ilya Tsemenko

Schematics update for J ID #859 @0.3h

Revision 100:0ea0deecd8d3 - 12/15/2013 01:03 AM - tin

Schematics update for J, In progress TRMS section ID #859 @2h

Revision 100:0ea0deecd8d3 - 12/15/2013 01:03 AM - Ilya Tsemenko

Schematics update for J, In progress TRMS section ID #859 @2h

Revision 101:9092fa6c8cb8 - 12/15/2013 03:31 AM - tin

Schematics update for J, In progress TRMS filter, added datasheets ID #859 @1.5h

Revision 101:9092fa6c8cb8 - 12/15/2013 03:31 AM - Ilya Tsemenko

Schematics update for J, In progress TRMS filter, added datasheets ID #859 @1.5h

Revision 108:ce9733f17bbe - 12/18/2013 12:11 AM - tin

Schematics update for J, In progress input section, added datasheets ID #859 @3h

Revision 108:ce9733f17bbe - 12/18/2013 12:11 AM - Ilya Tsemenko

Schematics update for J, In progress input section, added datasheets ID #859 @3h

Revision 109:19508eef1be7 - 12/18/2013 12:17 AM - tin

Schematics update for J, In progress input section ID #859 @0.1hh

Revision 109:19508eef1be7 - 12/18/2013 12:17 AM - Ilya Tsemenko

Schematics update for J, In progress input section ID #859 @0.1hh

Revision 115:b8817797d665 - 12/20/2013 01:46 AM - tin

Schematics update for J, digital update ID #820 @1h , analog isolation update from iZerg r87 ID #859 @0.3h

Revision 115:b8817797d665 - 12/20/2013 01:46 AM - tin

Schematics update for J, digital update ID #820 @1h , analog isolation update from iZerg r87 ID #859 @0.3h

Revision 127:9ad1fcd9d0e9 - 01/03/2014 04:19 AM - tin

Adding components on analog board, split pages, cleanup, ID #859 @5h

Revision 127:9ad1fcd9d0e9 - 01/03/2014 04:19 AM - Ilya Tsemenko

Adding components on analog board, split pages, cleanup, ID #859 @5h

Revision 128:1645f04759de - 01/03/2014 07:21 PM - tin

Reworking ohms section, added I2C EEPROM with cal storage, misc cleanup, ID #859 @2h

Revision 128:1645f04759de - 01/03/2014 07:21 PM - Ilya Tsemenko

Reworking ohms section, added I2C EEPROM with cal storage, misc cleanup, ID #859 @2h

Revision 129:609af6bb5f42 - 01/04/2014 05:12 AM - tin

Ohms drawing based on RevJ, removed K2002 manuals ID #859 @6h

Revision 129:609af6bb5f42 - 01/04/2014 05:12 AM - Ilya Tsemenko

Ohms drawing based on RevJ, removed K2002 manuals ID #859 @6h

Revision 137:e71f8628c576 - 01/11/2014 01:40 AM - tin

Block diagram WIP, Redrawn earth-referenced PSU, some ohms and cleanup ID #859 @6h

Revision 137:e71f8628c576 - 01/11/2014 01:40 AM - Ilya Tsemenko

Block diagram WIP, Redrawn earth-referenced PSU, some ohms and cleanup ID #859 @6h

Revision 139:b089a6e8800a - 01/12/2014 10:09 PM - tin

Added input amp circuits, improved front end side, ID #859 8h

Revision 139:b089a6e8800a - 01/12/2014 10:09 PM - Ilya Tsemenko

Added input amp circuits, improved front end side, ID #859 8h

Revision 140:b8cb05c65eb1 - 01/13/2014 04:39 AM - tin

Added input amp circuits, added AD buffer gains, ID #859 @13h

Revision 140:b8cb05c65eb1 - 01/13/2014 04:39 AM - Ilya Tsemenko

Added input amp circuits, added AD buffer gains, ID #859 @13h

Revision 141:9a4ab5e9384e - 01/13/2014 08:03 PM - tin

Added add IC's on analog board, some symbols redrawn, lib update, ID #859 @8h

Revision 141:9a4ab5e9384e - 01/13/2014 08:03 PM - Ilya Tsemenko

Added add IC's on analog board, some symbols redrawn, lib update, ID #859 @8h

Revision 142:d90071cf28d0 - 01/14/2014 01:01 PM - tin

Split input amps from ohms, some switches connect, ID #859 @0.5h

Revision 142:d90071cf28d0 - 01/14/2014 01:01 PM - Ilya Tsemenko

Split input amps from ohms, some switches connect, ID #859 @0.5h

Revision 144:0e3f7ec113a6 - 01/20/2014 07:24 PM - tin

Added some parts on ohm schematics ID #859 @1h

Revision 144:0e3f7ec113a6 - 01/20/2014 07:24 PM - Ilya Tsemenko

Added some parts on ohm schematics ID #859 @1h

Revision 147:078de5d4be99 - 01/22/2014 01:13 AM - tin

WIP, moved all unchecked analog board components to PAGE1 ID #859 @3h

Revision 147:078de5d4be99 - 01/22/2014 01:13 AM - Ilya Tsemenko

WIP, moved all unchecked analog board components to PAGE1 ID #859 @3h

Revision 184:b787857fd580 - 07/20/2014 03:40 AM - tin

Added photos of analog boards K2 and K3 ID #859 @1h Added datasheet for Q311 PN5432 ID #1129

Revision 184:b787857fd580 - 07/20/2014 03:40 AM - tin

Added photos of analog boards K2 and K3 ID #859 @1h Added datasheet for Q311 PN5432 ID #1129

History

#1 - 12/13/2013 12:46 AM - tin

- Parent task changed from #818 to #816

#2 - 12/20/2013 01:48 AM - tin

- % Done changed from 0 to 30

Added fix from iZerg [i87](#)

#3 - 01/03/2014 04:26 AM - tin

- % Done changed from 30 to 50

Восстанавливаем схему функции измерения сопротивлений.

#4 - 01/11/2014 01:45 AM - tin

- File Keithley_2001_Ohms_Amps.pdf added

- File Keithley_2001_Mains_input.pdf added

- File Keithley_2001_Isolation.pdf added

- File Keithley_2001_Block_diag.pdf added

#5 - 01/13/2014 04:43 AM - tin

- File K2001J_AD_BUFFER.pdf added

- % Done changed from 50 to 70

Added A/D buffer gains

#6 - 01/21/2014 07:58 PM - tin

Check:

~~R380 connection?~~ OK

~~R260, R268 connection?~~ ok

~~R379 connection~~ OK

~~U802.3 connection only to U803.3~~ - OK

~~R814 only to U804.2, R826, C825, U816.6?~~ OK

~~R396 only to R424, Q313.3(S), U335.6, Q330.2G;~~ OK, but q330 may be mirrored

~~VR302.A, VR307.K or i8VF and Q315.3C-2~~ ok

#7 - 01/21/2014 09:58 PM - tin

- File K2001_21JAN.pdf added

#8 - 07/13/2014 01:38 AM - tin

- Target version changed from Keithley 2001 #7 to Keithley 2001 #6

#9 - 04/07/2015 02:24 AM - tin

- Status changed from In Progress to Resolved

#10 - 04/11/2015 08:20 PM - tin

- Status changed from Resolved to Closed

Files

Keithley_2001_Ohms_Amps.pdf	182 KB	01/11/2014	tin
Keithley_2001_Mains_input.pdf	153 KB	01/11/2014	tin
Keithley_2001_Isolation.pdf	93.6 KB	01/11/2014	tin
Keithley_2001_Block_diag.pdf	123 KB	01/11/2014	tin
K2001J_AD_BUFFER.pdf	140 KB	01/13/2014	tin
K2001_21JAN.pdf	712 KB	01/21/2014	tin