






TECHNICAL REPORT

Product	Portable Gas Monitor		
Name and address of the applicant	RIKEN KEIKI Co., Ltd. 2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan		
Rating and principal characteristics	Battery operated. BUL-6000 (rechargeable Li-ion battery unit) or BUD-6000 (Alkaline battery unit). For BUD-6000: use only Toshiba LR6 or Duracell MN1500 AA-batteries. Both batteries can be installed into GX-6000 and GX-6100.		
Trade mark (If any)			
Model/type	GX-6000 and GX-6100		
DNV certificate no.	Presafe 15 ATEX 6171X issue 6		
Ex-code for component / electrical apparatus	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">    </div> <div> II 1 G Ex ia IIB T4/T3 Ga -20°C ≤ Ta ≤ +50°C II 1 G Ex ia IIC T4/T3 Ga -20°C ≤ Ta ≤ +50°C II 1 G Ex da ia IIC T4/T3 Ga -20°C ≤ Ta ≤ +50°C </div> </div>		
Additional information	T _{amb} -20°C to +50°C		
Report issue No.	6		
Tested according to	EN IEC 60079-0:2018 (IEC 60079-0 ed. 7)	Explosive atmospheres, Part 0: Equipment – General requirements	
	EN 60079-1:2014 (IEC 60079-1 ed. 7)	Equipment protection by flameproof enclosures "d"	
	EN 60079-11:2012 (IEC 60079-11 ed. 6)	Electrical apparatus for potentially explosive atmospheres Equipment protection by intrinsic safety "i"	
Name and address of the testing laboratory		DNV Product Assurance AS Veritasveien 1 1363 Høvik Norway	Tel: +47 67 57 88 00 e-mail: ex@dnv.com Web: www.dnv.com
Prepared by	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Gunnar Nielsen		2022-11-02 Date
Reviewed by	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Stig André Norheim		
Approved by	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Asle Kaastad		

This document has been (partly or fully) digitally signed. See www.dnv.com/digitalsignatures for info

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General remarks:

The test results presented in this Technical Report relate only to the item or product tested.

The technical content of this report shall not be reproduced except in full without the written approval of the issuing Notified Body.

Appendix; [Part 0 \(IECEX TEST REPORT ADDENDUM, IEC 60079-0 and IEC 60079-11\)](#)
[Part 1 \(IECEX TEST REPORT, IEC 60079-1\)](#)







Description of equipment under test:







This report covers the portable gas monitor GX-6000 and GX-6100, which is used for measuring flammable gas concentration in hazardous location. GX-6000 and GX-6100 are battery-operated handheld portable devices and are built up by anti-electrostatic plastic enclosure with minor metal parts such as assembly screws. Two alternative battery units may be used, BUL-6000 (rechargeable Li-ion battery) and BUD-6000 (alkaline dry battery). Replacement or charging of battery unit can be performed by end-users and is only allowed in non-hazardous areas. Safety instructions and warnings must be followed. Following parts are also included in the investigation, charger module BC-6000 or SDM-6000, Combustible gas sensor, Toxic gas sensor and Oxygen sensor, Smart sensor type DES, ESS, PIS & OSS.

GX-6000: When the combustible gas sensor is used the gas group is limited to IIB.

GX-6100: Combustible gas sensor, NCR-6309, is used and the gas group is IIC, as sensor is certified as "da".

Ambient temperature range during battery charging: $-0^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

GX-6000:			
Ex code	Ambient temperature	Combustible gas sensor	Battery
 II 1 G Ex ia IIB T4 Ga	-20°C to +50°C	Mounted	BUL-6000
 II 1 G Ex ia IIC T4 Ga	-20°C to +50°C	Not mounted	BUL-6000
 II 1 G Ex ia IIB T4 Ga	-20°C to +50°C	Mounted	BUD-6000 LR6 (Toshiba)
 II 1 G Ex ia IIC T4 Ga	-20°C to +50°C	Not mounted	BUD-6000 LR6 (Toshiba)
 II 1 G Ex ia IIB T3 Ga	-20°C to +50°C	Mounted	BUD-6000 MN1500 (Duracell)
 II 1 G Ex ia IIC T3 Ga	-20°C to +50°C	Not mounted	BUD-6000 MN1500 (Duracell)

GX-6100:			
Ex code	Ambient temperature	Combustible gas sensor	Battery
 II 1 G Ex da ia IIC T4 Ga	-20°C to +50°C	Mounted	BUL-6000
 II 1 G Ex ia IIC T4 Ga	-20°C to +50°C	Not mounted	BUL-6000
 II 1 G Ex da ia IIC T4 Ga	-20°C to +50°C	Mounted	BUD-6000 LR6 (Toshiba)
 II 1 G Ex ia IIC T4 Ga	-20°C to +50°C	Not mounted	BUD-6000 LR6 (Toshiba)
 II 1 G Ex da ia IIC T3 Ga	-20°C to +50°C	Mounted	BUD-6000 MN1500 (Duracell)
 II 1 G Ex ia IIC T3 Ga	-20°C to +50°C	Not mounted	BUD-6000 MN1500 (Duracell)

Electrical Data

Battery operated. BUL-6000 (rechargeable Li-ion battery unit) or BUD-6000 (Alkaline battery unit)

For BUD-6000: use only Toshiba LR6 or Duracell MN1500 AA-batteries (different battery types shall not be mixed).

Degrees of protection (IP Code)

(Compliance with requirement of IP20 is checked)

Warning markings;

BUL-6000 (Label B): WARNING – Do not charge battery in haz.loc.

BUD-6000 (Label C): WARNING – Use only battery types LR6 TOSHIBA or MN1500 DURACELLGX-6100,

BUL-6000, BUD-6000 (Label D): Read manual for safety info. Do not open in haz.loc.

Descriptive documents;

Drawing No.	Name/Title	Rev.	Date	Page/s
E3-6991-5470-70-01K	INDEX GX-6000	7	2021.07.26	1
E3-6991-5470-70-02K	INDEX GX-6100	2	2022.10.11	1

See at the end of the report for complete overview.

Copy of marking plate:

GX-6100(LABEL A)

MODEL GX-6100
 INST.No.
 RIKEN KEIKI Co., Ltd.
 2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan


BUL-6000(LABEL B)

MODEL BUL-6000
 INST.No.
 RIKEN KEIKI Co., Ltd./2-7-6, Azusawa,
 Itabashi-ku, Tokyo, 174-8744, Japan
 WARNING
 Do not charge battery in haz.loc.

BUD-6000(LABEL C)

MODEL BUD-6000
 INST.No.
 RIKEN KEIKI Co., Ltd./2-7-6, Azusawa,
 Itabashi-ku, Tokyo, 174-8744, Japan
 WARNING Use only battery types
 LR6 TOSHIBA or MN1500 DURACELL


GX-6100, BUL-6000, BUD-6000(LABEL D)



II 1G Ex da IIC T4/T3 Ga
 (with NCR-6309)
 II 1G Ex ia IIC T4/T3 Ga
 (without NCR-6309)
 -20°C ≤ Ta ≤ +50°C
 Read manual for safety info.
 Do not open in haz.loc.
IECEx DNV 15.0011

GX-6000(LABEL A)

MODEL GX-6000
 INST.No.
 RIKEN KEIKI Co., Ltd.
 2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan



GX-6000, BUL-6000, BUD-6000(LABEL D)

CE 2460 Ex
 II 1G Ex ia IIC / IIB T4 / T3 Ga
 Presafe15ATEX617IX
 IECEx PRE 15.0011
 -20°C ≤ Ta ≤ +50°C
 WARNING
 Read manual for safety info.
 Do not open in haz.loc.

Tested according to additional information:

N / A


Other requirements:

N / A

Additional information:

N / A

Calibration:	All instruments used in the tests given in this test report are calibrated and traceable to national or international standards. Further information about traceability will be given on request.
Measurement uncertainty:	Measurement uncertainties are calculated for all instruments and instrument set-ups given in this report. Calculations are based on the principles given in the standard EA-4/02 (Oct 2013). Further information about measurement uncertainties will be given on request

Laboratory accreditation	 Testing laboratory satisfy requirements in NS-EN ISO/IEC 17025
Possible test case verdicts: - test case does not apply to the test item.....: N / A - test item does meet the requirement.....: Pass	

Report History		
Issue No.	Date of revision	Description
0	2015-04-21	Original report
1	2015-06-16	- Changed layout of DES sensor PCB in order to change the optical path length. The infrared sensor is then able to measure additional gas type. - Minor changes of non-safety components charger module SDM-6000.
2	2020-08-27	Update the notified body number
3	2020-11-02	Removed EN60079-26: 2007
4	2021-04-28	Updated to the latest edition of EN 60079-0, include an additional battery cell for use with BUD-6000 and update gas group to IIB when the combustible gas sensor (NC-6264A) is used.
5	2021-08-05	Correct the marking label with new battery cell type.
6	2022-11-02	Added the model GX-6100, new piezo-electric buzzer, backup battery changed and new BLE module.

Equipment tested:

DNV Sample ID.	Date received	Description (size, colour, material, prototype modification, version no. etc)	Serial no. (if any)
1	2022.08.16	Gas detector GX-6100, lithium ion battery, piezoelectric device	N / A
2	2022.08.16	Gas detector GX-6100, alkaline battery, piezoelectric device	N / A
3	2022.08.16	Fully populated circuit board (MAIN PCB)	N / A
4	2022.08.16	Fully populated circuit board (SENSOR PCB)	N / A
5	2022.08.16	Fully populated circuit board (SHS DIGITAL PCB)	N / A
6	2022.08.16	10 secondary backup batteries	N / A
7	2022.08.16	Gas detector GX-6100, complete sample	N / A

Photos of equipment

Photos of equipment






EN IEC 60079-0:2018

Clause	Requirement - Test	Result - Remark	Verdict
Endorsement notice: The text of the International Standard IEC 60079-0:2017 was approved by CENELEC as a European Standard without any modifications Additional information relating to the European ATEX directive 2014/34/EU (informative):			
Annex ZY.1	Equipment groups and categories		
Annex ZY.2	Instructions In clause 30.1 under: "instructions for safety addressing the following areas – installation and erection;" "Information other than the general requirements given in IEC 60079-14" Is replaced by "Information other than the general requirements given in EN 60079-14 and EN 50628"		Pass
Annex ZY.3	Marking	Refer to checklist for MARKING: -ADDITIONAL REQUIREMENTS ACCORDING TO ATEX DIRECTIVE	Pass
Annex ZY.4	Fans Clause 17.2.5 "Room ventilating fans" is to be supplemented by the requirements given in EN 14986 "Design of fans working in potentially explosive atmospheres"	No fans in EUT.	N / A

EN 60079-1:2014

Clause	Requirement - Test	Result - Remark	
Endorsement notice: The text of the International Standard IEC 60079-1:2014 was approved by CENELEC as a European Standard without any modifications.			

EN 60079-11:2012			
Clause	Requirement - Test	Result - Remark	
Endorsement notice: The text of the International Standard IEC 60079-11:2011 was approved by CENELEC as a European Standard without any modifications.			

MARKING: -ADDITIONAL REQUIREMENTS ACCORDING TO ATEX DIRECTIVE			
Clause	Requirement - Test	Result - Remark	Verdict
	Where reference is made to Directive 2014/34/EU, the marking shall also include (Annex II, 1.0.5)		Pass
	<ul style="list-style-type: none"> name, registered trade name or registered trade mark, and address of the manufacturer, 	RIKEN KEIKI Co., Ltd. 2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan	Pass
	<ul style="list-style-type: none"> the year in which the equipment was constructed 	Small equipment – limited space.	N / A
	<ul style="list-style-type: none"> the specific marking of explosion protection  followed by the symbol of the equipment-group and the category 	 II 1G	Pass
	<ul style="list-style-type: none"> CE marking with identification number to the notified body involved in the production control phase 	 2460	Pass
	<ul style="list-style-type: none"> If ATEX component, no CE mark, only NB number 	EUT is not an Ex component.	N / A
	for equipment Group II:		Pass
	<ul style="list-style-type: none"> the letter 'G' where explosive atmospheres caused by gases, vapours or mists are concerned and/or 	G	Pass
	<ul style="list-style-type: none"> the letter 'D' where explosive atmospheres caused by dusts are concerned 		N / A



Descriptive documents:


	DRAWING NAME	DRAWING No.	REV	DATE
01	BLOCK DIAGRAM FOR MODEL GX-6000	E3-6991-5393-30-01K	0	2014.7.28
02	DIAGRAM FOR I.S. KEEP FOR MODEL GX-6000	E3-6991-5361-10-01K	2	2014.12.16
03	OUTER STRUCTURE GX-6000	M3-4777-01-01K	0	2014.7.18
04	MAIN UNIT GX-6000	M2-4777-01-01K	1	2014.9.30
05	SCHEMATIC MAIN PCB FOR MODEL GX-6000	E3-6991-5372-80-01K	0	2014.7.14
06	SCHEMATIC MAIN PCB FOR MODEL GX-6000	E3-6991-5372-80-02K	0	2014.7.14
07	SCHEMATIC MAIN PCB FOR MODEL GX-6000	E3-6991-5372-80-03K	0	2014.7.14
08	SCHEMATIC MAIN PCB FOR MODEL GX-6000	E3-6991-5372-80-04K	0	2014.7.14
09	SCHEMATIC MAIN PCB FOR MODEL GX-6000	E3-6991-5372-80-05K	0	2014.7.14
10	PARTS LIST OF MAIN PCB	PLT-6991-5372-80 (1/4)	0	2014.7.14
11	PARTS LIST OF MAIN PCB	PLT-6991-5372-80 (2/4)	3	2014.12.16
12	PARTS LIST OF MAIN PCB	PLT-6991-5372-80 (3/4)	1	2014.11.5
13	PARTS LIST OF MAIN PCB	PLT-6991-5372-80 (4/4)	0	2014.7.14
14	MAIN PCB FOR MODEL GX-6000	E3-6991-5372-80-01A	0	2014.7.14
15	MAIN PCB FOR MODEL GX-6000	E3-6991-5372-80-02A	0	2014.7.14
16	SCHEMATIC SENSOR PCB FOR MODEL GX-6000	E3-6991-5373-50-01K	1	2014.11.5
17	PARTS LIST OF SENSOR PCB	PLT-6991-5373-50 (1/1)	2	2014.12.16
18	SENSOR PCB FOR MODEL GX-6000	E4-6991-5373-50-01A	1	2014.11.5
19	SENSOR I MAIN WIRE FOR MODEL GX-6000	E4-6991-5382-70-01K	0	2014.7.14
20	PUMP RP-12	M4-4181-61-01K	3	2013.1.29
21	SUCKER BZ-9K	E4-6991-5008-70-01K	0	2011.2.28
22	COMBUSTIBLE GAS SENSOR NC SENSOR	M3-4462-94-05K	3	2012.4.17
23	TOXIC GAS SENSOR	M4-4084-92-03K	0	2014.7.30
24	OXYGEN SENSOR	M4-4080-92-07K	0	2014.7.30
25	SMART SENSOR Type-ESS	M4-4486-01-01K	0	2014.7.30
26	TOXIC GAS SENSOR	M4-4084-30-08K	0	2014.7.30
27	ESS SENSOR PCB	E3-6991-5384-10-01K	0	2014.7.14
28	SMART SENSOR Type-DES	M4-4630-20-01K	0	2014.7.24
29	DES SENSOR PCB	E3-6991-5385-90-01K	1	2015.5.25
30	DES DIGITAL PCB	E3-6991-5386-60-01K	1	2015.2.24

	DRAWING NAME	DRAWING No.	REV	DATE
31	T- 3/4 BPA LAMP OL-82708PA	E4-6991-5120-60-01K	0	2012.2.24
32	SMART SENSOR Type-PI5	M4-4830-01-01K	1	2015.3.25
33	PI5 SENSOR PCB	E4-6991-5387-30-01K	2	2015.3.25
34	PI5 DIGITAL PCB	E3-6991-5388-10-01K	1	2015.3.25
35	BUL-6000	M3-4777-03-01K	0	2014.7.28
36	BUL PCB	E3-6991-5389-80-01K	1	2014.9.5
37	BUD-6000	M3-4777-04-01K	1	2015.3.6
38	BUD PCB	E4-6991-5390-50-01K	1	2014.9.5
39	DIAGRAM FOR I.S. KEEP FOR MODEL BC-6000 / SDM-6000	E4-6991-5395-80-01K	1	2014.9.5
40	LABEL	M4-4777-01-01K	7	2021.7.26
41	LABEL BC-6000 / SDM-6000	M4-4777-01-02K	0	2014.7.28
42	SCHEMATIC CHARGER PCB FOR MODEL BC-6000	E3-6991-5255-80-01K	0	2014.12.16
43	CHARGER PCB FOR MODEL BC-6000	E3-6991-5255-80-01A	0	2014.12.16
44	SCHEMATIC CHARGER PCB FOR MODEL SDM-6000	E3-6991-5445-60-01K	1	2015.3.5
45	CHARGER PCB FOR MODEL SDM-6000	E3-6991-5445-60-01A	2	2015.6.12
46	SMART SENSOR Type-OSS	M4-4080-01-01K	0	2015.2.24
47	OSS SENSOR PCB	E4-6991-5457-00-01K	0	2015.2.24
48	OSS DIGITAL PCB	E3-6991-5456-70-01K	0	2015.2.24
49	OXYGEN SENSOR	M4-4080-01-02K	0	2015.2.24
50	BC-6000	M3-4777-02-01K	1	2015.3.23
51	SDM-6000	M3-4395-23-01K	1	2015.3.23

注 意 NOTES		原稿担当者 REV BY	原稿日 REVISIED	名 称 NAME
原稿回数 REV	No.40 7 1 原稿枚数 PAGE	小野圭	2021.7.26	INDEX GX-9000
承認 APPROVED	校 対 CHECKED	製 業 DRAWN	作成日 DATE	図番 DWG NO.
石橋 隆	北村正英	小野圭	2015.3.6	E3-6991-5470-70-01K
RIKEN KEIKI		理研精密設計会社		機密情報 /CONFIDENTIAL

		DRAWING NAME	DRAWING No.	REV	DATE
*	01	BLOCK DIAGRAM FOR MODEL GX-6100	E3-6991-6362-60-01K	1	2022.9.26
*	02	DIAGRAM FOR I.S. KEEP FOR MODEL GX-6100	E3-6991-6352-70-01K	1	2022.9.26
*	03	OUTER STRUCTURE GX-6100	M3-4777-33-01K	0	2022.7.28
*	04	MAIN UNIT GX-6100	M2-4777-33-01K	1	2022.9.26
*	05	SCHEMATIC MAIN PCB FOR MODEL GX-6100	E3-6991-6364-10-01K	0	2022.7.7
*	06	SCHEMATIC MAIN PCB FOR MODEL GX-6100	E3-6991-6364-10-02K	1	2022.9.26
*	07	SCHEMATIC MAIN PCB FOR MODEL GX-6100	E3-6991-6364-10-03K	0	2022.7.7
*	08	SCHEMATIC MAIN PCB FOR MODEL GX-6100	E3-6991-6364-10-04K	0	2022.7.7
*	09	SCHEMATIC MAIN PCB FOR MODEL GX-6100	E3-6991-6364-10-05K	0	2022.7.7
*	10	PARTS LIST OF MAIN PCB FOR MODEL GX-6100	PLT-6991-6364-10 (1A)	0	2022.7.7
*	11	PARTS LIST OF MAIN PCB FOR MODEL GX-6100	PLT-6991-6364-10 (2A)	1	2022.9.26
*	12	PARTS LIST OF MAIN PCB FOR MODEL GX-6100	PLT-6991-6364-10 (3A)	0	2022.7.7
*	13	PARTS LIST OF MAIN PCB FOR MODEL GX-6100	PLT-6991-6364-10 (4A)	0	2022.7.7
*	14	MAIN PCB FOR MODEL GX-6100	E3-6991-6364-10-01A	0	2022.7.7
*	15	MAIN PCB FOR MODEL GX-6100	E3-6991-6364-10-02A	0	2022.7.7
*	16	SCHEMATIC SENSOR PCB FOR MODEL GX-6100	E3-6991-6365-80-01K	0	2022.7.7
*	17	PARTS LIST OF SENSOR PCB FOR MODEL GX-6100	PLT-6991-6365-80 (1I)	0	2022.7.7
*	18	SENSOR PCB FOR MODEL GX-6100	E3-6991-6365-80-01A	0	2022.7.7
	19	SENSOR TO MAIN WIRE FOR MODEL GX-6000	E4-6991-5382-70-01K	0	2014.7.14
	20	PUMP RP-12	M4-4181-61-01K	3	2013.1.29
*	21	BUZZER	E4-6991-6387-10-01K	0	2022.9.26
*	22	COMBUSTIBLE GAS SENSOR NO-6309	M3-4463-10-02K	7	2022.6.16
*	23	4EC SENSOR Type-ESR	M4-4488-19-01K	2	2018.3.29
*	24	3EC SENSOR Type-ESR	M4-4482-20-01K	2	2018.3.29
	25	SMART SENSOR Type-ESS	M4-4486-01-01K	0	2014.7.30
	26	TOXIC GAS SENSOR	M4-4084-30-08K	0	2014.7.30
	27	ESS SENSOR PCB	E3-6991-5384-10-01K	0	2014.7.14
	28	SMART SENSOR Type-DES	M4-4630-20-01K	0	2014.7.24
	29	DES SENSOR PCB	E3-6991-5385-90-01K	1	2015.5.25
	30	DES DIGITAL PCB	E3-6991-5386-60-01K	1	2015.2.24

		DRAWING NAME	DRAWING No.	REV	DATE
31		T-34 BPA LAMP OL-5270BPA	E4-6991-5129-00-01K	0	2012.2.24
32		SMART SENSOR Type-PIS	M4-4830-01-01K	1	2015.3.25
33		PIS SENSOR PCB	E4-6991-5387-30-01K	2	2015.3.25
34		PIS DIGITAL PCB	E3-6991-5388-10-01K	1	2015.3.25
35		BUL-6000	M3-4777-03-01K	0	2014.7.28
36		BUL PCB	E3-6991-5389-80-01K	1	2014.9.5
37		BUD-6000	M3-4777-04-01K	1	2015.3.6
38		BUD PCB	E4-6991-5390-50-01K	1	2014.9.5
39		DIAGRAM FOR I.S. KEEP FOR MODEL BC-6000 / SDM-6000	E4-6991-5395-80-01K	1	2014.9.5
* 40		LABEL	M4-4777-33-01K	1	2022.10.6
41		LABEL BC-6000 / SDM-6000	M4-4777-01-02K	0	2014.7.28
42		SCHEMATIC CHARGER PCB FOR MODEL BC-6000	E3-6991-5255-80-01K	0	2014.12.16
43		CHARGER PCB FOR MODEL BC-6000	E3-6991-5255-80-01A	0	2014.12.16
44		SCHEMATIC CHARGER PCB FOR MODEL SDM-6000	E3-6991-5445-00-01K	1	2015.3.5
45		CHARGER PCB FOR MODEL SDM-6000	E3-6991-5445-00-01A	2	2015.6.12
46		SMART SENSOR Type-OSS	M4-0800-01-01K	0	2015.2.24
47		OSS SENSOR PCB	E4-6991-5457-00-01K	0	2015.2.24
48		OSS DIGITAL PCB	E3-6991-5458-70-01K	0	2015.2.24
49		OXYGEN SENSOR	M4-0800-01-02K	0	2015.2.24
50		BC-6000	M3-4777-02-01K	1	2015.3.27
51		SDM-6000	M3-4395-23-01K	1	2015.3.27
* 52		SMART SENSOR Type-SHS	M4-4777-33-02K	0	2022.7.28
* 53		COMBUSTIBLE GAS SENSOR SH-8861	M3-4086-61-01K	0	2015.2.3
* 54		SHS DIGITAL PCB	E3-6991-6366-50-01A	0	2022.7.7
* 55		COMBUSTIBLE GAS SENSOR TE-7561	M4-0075-63-01K	0	2011.1.3

主 控 NOTES		改 版 由 谁 40	改 版 日 期 REVISED	名 称 NAME
改 版 回 数 REV	制 版 数 PAGES	1 小 野 主	2022.10.11	INDEX
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山 田 和 平	小 野 主	木 村 司	2022.8.10	E3-6991-5470-70-02K
 RIKEN KEIKI		理 研 計 装 機 株式会社		
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