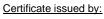


# Certificate of Conformity EX EQUIPMENT

		T	1	
Certificate No.:	NZEx 05.4010X	Current Issue: 6	Date of Issue:	2023-08-08
Applicant:	Ampcontrol CSM Pty 7 Billbrooke Close Cameron Park NSW Australia			
Equipment:	Dieselguard Diesel Ma E09484, E09485, E09			
Type of Explosion Protection:	Ex 'm' and Ex [ia]			
Explosion Protection Marking	Ex m [ia] I (150°C) IP6 j:	66 T <sub>amb</sub> = -20°C to +70	°C	
	This certificate is granted su oint Accreditation System of ix System Rules 2020 & ANZ	Australia and New Zeal	and Publications	
Signed for and on be	ehalf of issuing body	\$		
	Name & Position	James Bes, Cert	ification Authority	
	ble and remains the property of the iss on be confirmed through the database	• •		



Ex Testing & Certification Pty Ltd 1/30 Kennington Drive, Tomago NSW 2322 Australia







## Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

Manufacturer: Ampcontrol CSM Pty Ltd

7 Billbrooke Close

Cameron Park NSW 2285

Australia

Additional Manufacturing Location(s):

Nil

#### STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

AS/NZS 60079-0: 2000 Electrical apparatus for explosive gas atmospheres -

Part 0: General requirements

AS/NZS 60079-11: 2000 Electrical apparatus for explosive gas atmospheres -

inc A1 Part 11:Intrinsic safety "i"

AS 2431 - 1981 Electrical equipment for explosive atmospheres –

Encapsulated apparatus - Type of protection m

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

(Certificate format based on template QMA-HAE-08-720 dated 2021-05-18)







## Certificate of Conformity

Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

### **Schedule**

#### **Equipment Description:**

The apparatus is an electronic monitor, which collects information from external sensors such as gas transmitters, RTDs, proximity sensors, pressure switches and digital inputs and provides output signals to drive separately certified intrinsically safe indicators, relays, solenoids and "simple apparatus".

The apparatus comprises of a battery and four printed wiring boards (main board, terminal board, wireless board and a battery board) upon which are mounted electronic components. The electronic components are completely encapsulated in to a metallic housing fitted with a lid and secured in place with bolts. The battery is connected to the main board by an integral cable which is encapsulated at both ends.

The equipment has the ability to data log information on its own and the connected sensors. The logged data and configuration of the unit can be carried out remotely using the built in radio transmitter link.

External connections are made via the integral cable and terminal blocks. The terminal blocks contain only intrinsically safe circuits. The conductors of the integral cable are numbered to minimise the risk of incorrect connection and terminals for connecting to intrinsically safe circuits.

The models listed may include different software versions and hardware options, where the hardware changes are limited to the inclusion or removal of the radio pwb and antenna.

Models without Radio PCB and antenna: E09464, E09481, E09482 & E09483

Models with Radio PCB and antenna: E09465, E09484, E09485, E09486 and E09487

#### **Electrical Ratings/Parameters**

Um 90V at Integral input cable

Um 16.2V at External battery cable

Um 16.2V at Programming Header







# Certificate of Conformity EX EQUIPMENT

Certificate No.: **ANZEX 05.4010X** Current Issue: 6 Date of Issue: 2023-08-08

### **Specific Conditions of Use:**

The following parameters are not to be exceeded

Input Parameters							
Integral Cable							
(connected internally to PAD 1 and PAD 2, 3, 4)							
Um	90 V						
<i>Un</i> 12 to 24 V							
Prog	gramming Header						
Um	16.2 V						
Е	xternal Battery						
Um	16.2 V						

**Output Parameters** 

Terminal ID	<i>U</i> o (V)	lo (mA)	Po (mW)	Co (µF)	<i>Lo</i> (μΗ)	<i>L/R</i> (μΗ/Ω)
T.B.1 Sensor V+ wrt 0V TERM1 Pin 1	16.2	2508	5718	1	11.2	45
T.B.1 IDA V+ wrt 0V TERM1 Pin 3	16.2	2508	3929	1	11.2	45
T.B.1 SOL V+ wrt 0V TERM1 Pin 5	29.9	116.4	869	1	10.9	537
T.B.2 TERM2 Pins all (Run_In, Alarm_RST_In, Deputy_In)	16.2	49.2	201	10	10.9	2347
T.B.3 IDA GRN wrt 0V TERM3 Pin 5	16.2	37	147	10	10.9	3175
T.B.3 IDA RED wrt 0V TERM3 Pin 3	16.2	37	147	10	10.9	3175
T.B.3 IDA Drive wrt 0V TERM3 Pin 1	16.2	142.1	576	1	11.2	810







## Certificate of Conformity

Certificate No.: ANZEx 05.4010X		Curi	rent Issue: 6	Date	of Issue:	2023-08-08	
T.B.4 IDA Drive wrt 0V	16.2	101.8	411.9	1	1133		
T.B.5 TERM5 Pins all (Loop, Speedo, Oil)	16.2	1218.8	1710.6	1	10.9	94	
Antenna	16.2	2508	5718	12.4	74	45	
Programming Header Pin 1 wrt pin 6	16.2	1715	3014	Not applicable see note 5 below			
Programming Header Pin 2 wrt pin 6	16.2	1715	3014	Not applicable see note 5 below			
Programming Header Pin 3 wrt pin 6	16.2	1715	3014	Not applicable see note 5 below			
Programming Header Pin 4 wrt pin 6	16.2	1715	3014	Not applicable see note 5 below			
Programming Header Pin 5 wrt pin 6	16.2	1715	3014	Not applicable see note 5 below			

- 2 The apparatus must be installed such that the integral wires are housed in a suitably cerified Ex e or Ex d enclosure having minimum Ingress Protection (IP) rating of IP55. If the wires are terminated in an Ex e enclosure suitably certified Ex e terminals must be used for terminating the wires.
- 3 The earth bonding conductor must be infallibly connected to the chassis earth via terminations that are fixed in their mountings without possibility of self-loosening and shall be constructed such that the conductors cannot slip out of their intended location.
- 4 The apparatus is not suitable for use in areas where the equipment may be subject to corrosion, eg areas where acetic acid gases, mists, vapours or liquids are present.
- 5 Connections to the Programming port are **only** to be used in the non-hazardous area
- The connection to the External Battery must only be made to either an Intrinsically safe power supply or a suitable battery having a maximum open circuit voltage of 16.2V







# Certificate of Conformity

Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

### **Register of Issues and Variations**

includes the current issue

### Issue 0 dated 2005-07-29

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: TR3371 by ITACS

QAR No. & Issuing CB: ANZEx 05.4010X 05-01 ITACS. File Reference: ANZ Ex 05.4010X (TO 3371)

Document/Drawing Title	Document/Drawing Number	Pages / Sheets	Revision	Date
BATTERY COMPONENTS DIESEL GAS SAMPLER SUB ASSESMBLY DETAILS	23-0002ASSY		0	2005/06/24
BATTERY CLAMP PLATE DIESEL MONITOR MANUFACTURING DETAILS	23-0002L		0	2005/04/22
Diesel Machine Monitor Main System PCB Bottom Overlay	24-2660-BO		С	2005/05/30
Diesel Machine Monitor Main System PCB Bottom Layer	24-2660-BT		С	2005/05/30
Diesel Machine Monitor Main System PCB Mid Layer 1	24-2660-M1		С	2005/05/30
Diesel Machine Monitor Main System PCB Mid Layer 2	24-2660-M2		С	2005/05/30
Diesel Machine Monitor Main System PCB Top Overlay	24-2660-TO		С	2005/05/30
Diesel Machine Monitor Main System PCB Top Trace	24-2660-TT		С	2005/05/30
Diesel Machine Monitor Field Terminal PCB Bottom Trace	24-2661-BT		С	2005/05/30
Diesel Machine Monitor Field Terminal PCB Top Overlay	24-2661-TO		С	2005/05/30
Diesel Machine Monitor Field Terminal PCB Top Trace	24-2661-TT		С	2005/05/30
Diesel Machine Monitor Battery Terminal PCB Top Overlay	24-2662- TO		С	2005/05/30
Diesel Machine Monitor Battery Terminal PCB Top Trace	24-2662-TT		С	2005/05/30
Diesel Machine Monitor Wireless Link PCB Bottom Trace	24-2663-BT		В	2005/06/22
Diesel Machine Monitor Wireless Link PCB Top Overlay	24-2663-TO		В	2005/06/22
Diesel Machine Monitor Wireless Link PCB Top Trace	24-2663-TT		В	2005/06/22
FLAMEPROOF SINTER DIESEL MONITOR MANUFACTURING DETAILS	25-0012S-01		0	2005/04/28
ENCLOSURE, LID & ACCESSORIES DIESEL GAS SAMPLER GENERAL ASSEMBLY	25-6600ASSY		1	2005/07/14







# Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 05.4010X	Си	rrent Issue: 6	Da	te of Issue:	2	023-08-08
S/STEEL ENCLOSURE FOR DIESEL GAS SAMPLER MANUFACTURING DETAILS		25-6600L-01		1		2005/05/05
S/STEEL ENCLOSURE LID FOR DIESEL GAS SAMPLEF MANUFACTURING DETAILS	?	25-6600L-02		0	1	2005/04/19
LABEL CERTIFICATION 9464 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6601L		1		2005/07/14
LABEL CERTIFICATION 9465 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6603L		1		2005/07/14
LABEL CERTIFICATION 9481 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6604L		O	)	2005/07/14
LABEL CERTIFICATION 9482 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6605L		0	)	2005/07/14
LABEL CERTIFICATION 9483 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6606L		0	)	2005/07/14
LABEL CERTIFICATION 9484 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6607L		0	)	2005/07/14
LABEL CERTIFICATION 9485 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6608L		0	)	2005/07/14
LABEL CERTIFICATION 9486 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6609L		0	)	2005/07/14
LABEL CERTIFICATION 9487 DIESEL GAS SAMPLER MANUFACTURING DETAILS		28-6610L		0	)	2005/07/14
FLAMEPROOF VENT BODY & SINTER DIESEL MONITO GENERAL ASSEMBLY	R	35-0012ASSY		0	)	2005/05/20
FLAMEPROOF VENT BODY DIESEL MONITOR MANUFACTURING DETAILS		35-0012L		0	١	2005/04/22
ANTENNA CO-AXIAL DIPOLE ASSEMBLY WITH FITTING GENERAL ARRANGEMENT	GS	47-6601L-01		0	١	2005/06/30
BATTERY COMPONENTS DIESEL GAS SAMPLER GENERAL ASSEMBLY		72-0002L		0	1	2005/06/24
MAIN COMPONENTS DIESEL GAS SAMPLER GENERA ARRANGEMENT	L	72-6600GA		1		2005/07/14
ELECTRONIC COMPONENTS DIESEL GAS SAMPLER GENERAL ASSEMBLY		72-6600LA		0	١	2005/06/24
MAIN COMPONENTS DIESEL GAS SAMPLER EPOXY RESIN ENCAPSULATION		75-2660ENC		0	١	2005/06/24
FIELD TERMINAL PCB DIESEL GAS SAMPLER GENERARRANGEMENT	AL	75-2661LB-01		0	١	2005/06/24
FIELD TERMINAL PCB CABLE CONNECTION DIESEL G SAMPLER GENERAL ARRANGEMENT	iAS	75-2661LB-02		0	)	2005/06/24
Input Supply		72-6600		V1	С	2005/03/24
		Sheet 1 of 11				







## Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 05.4010X	Cu	rrent Issue: 6	Date of Issue:	2023-08-08
Battery Charging Circuits		72-6600 Sheet 2 of 11	V1E	3 2005/03/24
Power Switching and Supply Monitor		72-6600 Sheet 3 of 11	V1E	3 2005/03/24
ia Output Supplies		72-6600 Sheet 4 of 11	V1E	3 2005/03/24
Processor and User I/O		72-6600 Sheet 5 of 11	V1E	3 2005/03/24
Main Signal I/O		72-6600 Sheet 6 of 11	V1E	3 2005/03/24
Radio Data Link		72-6600 Sheet 7 of 11	V10	2005/06/24
Root Schematic + connectors		72-6600 Sheet 8 of 11	V1E	3 2005/03/24
Field wiring terminals		72-6600 Sheet 9 of 11	V1E	3 2005/03/24
Crowbar Protection Circuit		72-6600 Sheet 10 of 11	V10	2005/03/24
Diesel Machine Monitor Certified Parts List		72-6600 Sheet 11 of 11	A	2005/06/02

### Issue 1 dated 2005-09-19

### Variations Permitted by this Issue

- 1. Minor circuit design changes.
- 2. Introduction of new model E09584 which is fitted with a radio PCB and antenna.
- 3. Introduction of optional encapsulated programming socket.
- 4. Optional minor mechanical design change to the terminal board to include a cutout.
- Additions to the connection parameters of the certificate to include information of the Programming Header Um, Uo etc, and addition of Condition of Safe Use #5 that the Programming Port is to be used only in the non-hazardous area.

#### Standards relevant for this issue:

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: TR3558 by ITACS

QAR No. & Issuing CB: ANZEx 05.4010X 05-01 ITACS







# Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

File Reference: TO 3558

Document/Drawings Title	Document/Drawings Number	Pages / Sheets	Revision	Date
BATTERY CLAMP PLATE DIESEL MONITOR MANUFACTURING DETAILS	22-0002L		1	2005/04/04
BATTERY COMPONENTS DIESEL GAS SAMPLER SUB ASSEMBLY DETAILS	23-0002ASSY		1	2005/08/05
Diesel Machine Monitor Main System PCB Modified artwork Bottom Layer	24-2660-BT		C2	2005/08/16
Diesel Machine Monitor Main System PCB Modified artwork Mid Layer 1	24-2660-M1		C2	2005/08/16
Diesel Machine Monitor Main System PCB Modified artwork Mid Layer 2	24-2660-M2		C2	2005/08/16
Diesel Machine Monitor Main System PCB Modified artwork Top Overlay	24-2660-TO		C2	2005/08/16
Diesel Machine Monitor Main System PCB Modified artwork Top Trace	24-2660-TT		C2	2005/08/16
Diesel Machine Monitor Field Terminal PCB Bottom Trace	24-2661-BT		D	2005/05/30
Diesel Machine Monitor Field Terminal PCB Top Overlay	24-2661-TO		D	2005/05/30
Diesel Machine Monitor Field Terminal PCB Top Trace	24-2661-TT		D	2005/05/30
Diesel Machine Monitor Wireless Link PCB Bottom Trace	24-2663-BT		С	2005/08/08
Diesel Machine Monitor Wireless Link PCB Top Overlay	24-2663-TO		С	2005/08/08
Diesel Machine Monitor Wireless Link PCB Top Trace	24-2663-TT		С	2005/08/08
S/STEEL ENCLOSURE FOR DIESEL GAS SAMPLER MANUFACTURING DETAILS	25-6600L-01		2	2005/08/04
MAIN COMPONENTS DIESEL GAS SAMPLER GENERAL ARRANGEMENT	72-6600GA		2	2005/08/05
MAIN COMPONENTS DIESEL GAS SAMPLER EPOXY RESIN ENCAPSULATION	75-2660ENC		1	2005/08/05
Main Signal I/O	72-6600 Sheet 6 of 11		V1C	2005/08/08
Radio Data Link	72-6600		V1D	2005/08/12
	Sheet 7 of 11		,,,,	2300,00,12
Diesel Machine Monitor Certified Parts List	72-6600		В	2005/08/12
	Sheet 11 of 11			
Programming adaptor	72-6600-X		А	2005/09/14







## Certificate of Conformity

Certificate No.:	ANZEx 05.4010X	Си	rrent Issue: 6	I	Date of Iss	rue:	2023-08-08
LABEL CERTIFICATI MANUFACTURING D	ON 9584 DIESEL GAS SAMPLER ETAILS		28-6611L			0	2005/09/07

#### Issue 2 dated 2006-05-12

#### Variations Permitted by this Issue

- 1. Minor electrical changes and minor mechanical changes to the main and wireless printed wiring boards
- 2. Replacement of the internal battery by an integral cable that facilitates use of an external separately certified battery. Models incorporating this change are:

Dieselguard Diesel Machine Gas Monitor Model E09464EB

Dieselguard Diesel Machine Gas Monitor Model E09465EB

Dieselguard Diesel Machine Gas Monitor Model E09481EB

Dieselguard Diesel Machine Gas Monitor Model E09482EB

Dieselguard Diesel Machine Gas Monitor Model E09483EB

Dieselguard Diesel Machine Gas Monitor Model E09484EB

Dieselguard Diesel Machine Gas Monitor Model E09485EB

Dieselguard Diesel Machine Gas Monitor Model E09486EB

Dieselguard Diesel Machine Gas Monitor Model E09487EB

3. Addition of External Battery parameter Um to the Input Parameters

#### Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: TR3743 by ITACS

QAR No. & Issuing CB: ANZEx 05.4010X 06-01 ITACS

File Reference: ANZ Ex 05.4010X

Document/Drawings Title	Document/Drawings Number	Pages / Sheets	Revision	Date
Diesel Machine Monitor Main System PCB Bottom Layer	24-2660-BT		D	2006/02/03
Diesel Machine Monitor Main System PCB Mid Layer 1	24-2660-M1		D	2006/02/03
Diesel Machine Monitor Main System PCB Mid Layer 2	24-2660-M2		D	2006/02/03
Diesel Machine Monitor Main System PCB Top Overlay	24-2660-TO		D	2006/02/03
Diesel Machine Monitor Main System PCB Top Trace	24-2660-TT		D	2006/02/03
Wireless Link PCB Bottom Trace	24-2663-BT		D	2006/02/03
Wireless Link PCB Top Overlay	24-2663-TO		D	2006/02/03
Wireless Link PCB Top Trace	24-2663-TT		D	2006/02/03







# Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 05.4010X	Си	ırrent Issue: 6	D	ate of Iss	ue:	2023-08-08
Enclosure, lid & accessories diesel gas sampler general assembly		25-6600ASSY			3	2006/03/01
Label certification 9464eb diesel gas sampler with externa battery manufacturing details	al	28-6601LEB			0	2006/01/31
Label certification 9465eb diesel gas sampler with externa battery manufacturing details	al	28-6603LEB			0	2006/01/31
Label certification 9481eb diesel gas sampler with externa battery manufacturing details	al	28-6604LEB			0	2006/01/31
Label certification 9482eb diesel gas sampler with externa battery manufacturing details	al	28-6605LEB			0	2006/01/31
Label certification 9483eb diesel gas sampler with externa battery manufacturing details	ıl	28-6606LEB			0	2006/01/31
Label certification 9484eb diesel gas sampler with externa battery manufacturing details	al	28-6607LEB			0	2006/01/31
Label certification 9485eb diesel gas sampler with externa battery manufacturing details	al	28-6608LEB			0	2006/01/31
Label certification 9486eb diesel gas sampler with external battery manufacturing details	al	28-6609LEB			0	2006/01/31
Label certification 9487eb diesel gas sampler with external battery manufacturing details	al	28-6610LEB			0	2006/01/31
Antenna co-axial monopole assembly with fittings general arrangement		47-6601L-01			2	2006/02/02
Main components diesel gas sampler with external battery general arrangement	/	72-6600GAEB			0	2006/03/01
Main components diesel gas sampler general arrangemer	nt	72-6600GA			3	2006/03/01
Battery Charging Circuits		72-6600			V1C	2006/02/01
		Sheet 2 of 11				
Power Switching and Supply Monitor		72-6600			V1C	2006/02/01
		Sheet 3 of 11				
ia Output Supplies		72-6600			V1C	2006/02/01
		Sheet 4 of 11				
Processor and User I/O		72-6600			V1C	2006/02/01
		Sheet 5 of 11				
Main Signal I/O		72-6600			V1C	2006/02/01
		Sheet 6 of 11				
Radio Data Link Version 2		72-6600			V1E	2006/02/01
		Sheet 7 of 11				
Root Schematic + connectors		72-6600			V1C	2006/02/01
		Sheet 8 of 11				







### Certificate of Conformity

Certificate No.: ANZEx 05.4010X	Си	rrent Issue: 6	Date of Iss	sue:	2023-08-08
Diesel Machine Monitor Certified Parts List		72-6600 Sheet 11 of 11		С	2006/03/06
Main components diesel gas sampler with external battery epoxy resin encapsulation	′	75-2660ENCEB		0	2006/03/01
Main components diesel gas sampler epoxy resin encapsulation		75-2660ENC		2	2006/03/01

#### Issue 3 dated 2015-03-02

Variations Permitted by this Issue

- change to address of the certificate holder and name and address of the manufacturer.

### Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: Nil

QAR No. & Issuing CB: AU/TSA/QAR06.0007/07.by TestSafe Australia

File Reference: 1113007614 TUV Rheinland Australia

### Manufacturer's Documents/Drawings associated with this issue:

Nil

### Issue 4 dated 2016-03-10

Variations Permitted by this Issue

- corrects the list of test reports on the certificate. (Earlier certificates issues 1, 2 and 3 had a typographical as they listed report TR 3177X, while it should have been TR3371).

### Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: Ni

QAR No. & Issuing CB: AU/TSA/QAR06.0007/07.by TestSafe Australia

File Reference: 1113007614 TUV Rheinland Australia

### Manufacturer's Documents/Drawings associated with this issue:

Nil

#### Issue 5 dated 2017-10-30







## Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

#### Variations Permitted by this Issue

- 1. Addition of a printed circuit board within the encapsulated electronics containing the programming port safety components. The port now has a non-conductive cover added.
- 2. The listing of components critical to intrinsic safety has been revised.
- 3. Critical components have now been specified by critical ratings (value, wattage, voltage, amps, as applicable) to allow procurement from different manufacturers with their particular part numbers, without invalidating compliance.
- 4. Addition of an internal earthing facility.
- 5. Clarification on Parameters tables regarding the internal connections and terminal pin numbers where the parameters pertain to, and added parameters for the Antenna connection.

### Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: REP17121-01 by TUV Rheinland Australia

QAR No. & Issuing CB: AU/TSA/QAR06.0007/08.by TestSafe Australia

File Reference: Job 17121

Document/Drawings Title	Document/Drawings Number	Pages / Sheets	Revision	Date
Diesel Machine Monitor Main Board Assy	GSB098	4	4	2017-10-26
(BOM)				
Diesel Machine Monitor Radio Board Assembly	GSB099	2	5	2017-10-24
(BOM)				
Diesel Machine Monitor	GSB101	1	0	2017-10-20
(Programming Board - BOM)				
Diesel Machine Monitor	GSE129	10	3	2017-10-20
(circuit schematics - various titles)				
DieselGuard Diesel Machine Monitor Programming Interface	GSE131	1	0	2017-10-20
(circuit schematic)				
DMM Programming Interface	GSP014	5	0	2017-10-20
(pcb layout)				
DieselGuard Gas Sampler External Battery	GSZ023	1	0	2017-08-28
General Arrangement			-	
DieselGuard Gas Sampler External Battery	GSZ024	1	0	2017-08-28
Epoxy Resin Encapsulation				







# Certificate of Conformity

Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

#### Issue 6 dated 2023-08-08

### Variations Permitted by this Issue

- 1. Increase current limit circuit on "Sensor V+" output
- 2. Change DC-DC converter and surrounding circuit on "Sol V+" output.
- 3. Add holes to PCB for ease of encapsulant flow when potting
- 4. Updated label drawing
- 5. Increase in the Po parameter for the Gas Sensor Output T.B.1 TERM1 Pin 1, and the Po parameter for the Antenna output.
- 6. Revised User Manual
- 7. Revised the circuit schematic document by splitting into the 3 boards (Main Board, Radio Data Link, Terminal Board).

### Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: REP22052-01 by ExTC

QAR No. & Issuing CB: AU/TSA/QAR06.0007/12.by TestSafe Australia

File Reference: 22052

Document Title	Document Number	Pages / Sheets	Revision	Date
BATTERY CLAMP PLATE DIESEL MONITOR MANUFACTURING DETAILS	22-0002L	1	1	2005-04-04
BATTERY COMPONENTS DIESEL GAS SAMPLER SUB ASSEMBLY DETAILS	23-0002ASSY	1	1	2005-08-05
Diesel Machine Monitor Field Terminal PCB Bottom Trace	24-2661-BT	1	D	2005-05-30
Diesel Machine Monitor Field Terminal PCB Top Overlay	24-2661-TO	1	D	2005-05-30
Diesel Machine Monitor Field Terminal PCB Top Trace	24-2661-TT	1	D	2005-05-30
Diesel Machine Monitor Battery Terminal PCB Top Overlay	24-2662- TO	1	С	2005-05-30
Diesel Machine Monitor Battery Terminal PCB Top Trace	24-2662-TT	1	С	2005-05-30
Wireless Link PCB Bottom Trace	24-2663-BT	1	D	2006-02-03
Wireless Link PCB Top Overlay	24-2663-TO	1	D	2006-02-03
Wireless Link PCB Top Trace	24-2663-TT	1	D	2006-02-03
FLAMEPROOF SINTER DIESEL MONITOR MANUFACTURING DETAILS	25-0012S-01	1	0	2005-04-28







# Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

Document Title	Document Number	Pages / Sheets	Revision	Date
Enclosure, lid & accessories diesel gas sampler general assembly	25-6600ASSY	1	3	2006-03-01
S/STEEL ENCLOSURE FOR DIESEL GAS SAMPLER MANUFACTURING DETAILS	25-6600L-01	1	2	2005-08-04
S/STEEL ENCLOSURE LID FOR DIESEL GAS SAMPLER MANUFACTURING DETAILS	25-6600L-02	1	0	2005-04-19
Label certification 9464eb diesel gas sampler with external battery manufacturing details	28-6601LEB	1	0	2006-01-31
Label certification 9465eb diesel gas sampler with external battery manufacturing details	28-6603LEB	1	0	2006-01-31
Label certification 9481eb diesel gas sampler with external battery manufacturing details	28-6604LEB	1	0	2006-01-31
Label certification 9482eb diesel gas sampler with external battery manufacturing details	28-6605LEB	1	0	2006-01-31
Label certification 9483eb diesel gas sampler with external battery manufacturing details	28-6606LEB	1	0	2006-01-31
Label certification 9484eb diesel gas sampler with external battery manufacturing details	28-6607LEB	1	0	2006-01-31
Label certification 9485eb diesel gas sampler with external battery manufacturing details	28-6608LEB	1	0	2006-01-31
Label certification 9486eb diesel gas sampler with external battery manufacturing details	28-6609LEB	1	0	2006-01-31
Label certification 9487eb diesel gas sampler with external battery manufacturing details	28-6610LEB	1	0	2006-01-31
FLAMEPROOF VENT BODY & SINTER DIESEL MONITOR GENERAL ASSEMBLY	35-0012ASSY	1	0	2005-05-20
FLAMEPROOF VENT BODY DIESEL MONITOR MANUFACTURING DETAILS	35-0012L	1	0	2005-04-22
Antenna co-axial monopole assembly with fittings general arrangement	47-6601L-01	1	2	2006-02-02
BATTERY COMPONENTS DIESEL GAS SAMPLER GENERAL ASSEMBLY	72-0002L	1	0	2005-06-24
Main components diesel gas sampler general arrangement	72-6600GA	1	3	2006-03-01
Main components diesel gas sampler with external battery general arrangement	72-6600GAEB	1	0	2006-03-01
ELECTRONIC COMPONENTS DIESEL GAS SAMPLER GENERAL ASSEMBLY	72-6600LA	1	0	2005-06-24
Programming adaptor	72-6600-X	1	А	2005-09-14







# Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

Document Title	Document Number	Pages / Sheets	Revision	Date
FIELD TERMINAL PCB DIESEL GAS SAMPLER GENERAL ARRANGEMENT	75-2661LB-01	1	0	2005-06-24
FIELD TERMINAL PCB CABLE CONNECTION DIESEL GAS SAMPLER GENERAL ARRANGEMENT	75-2661LB-02	1	0	2005-06-24
*Dieselguard	GSB098	3	12	2023-04-05
Main Board Root & Connectors				
(Bill of Materials)				
*Dieselguard	GSB099	1	8	2023-02-23
Radio Data Link V2 (Bill of Materials)				
Diesel Machine Monitor	GSB101	1	0	2017-10-20
(Programming Board - BOM)				
*Dieselguard	GSB102	1	1	2023-02-21
Terminal Board				
(Bill of Materials)				
*Dieselguard	GSE129	8	13	2023-07-26
Main Board Root & Connectors				
Schematic				
(various titles)				
DieselGuard	GSE131	1	0	2017-10-20
Diesel Machine Monitor				
Programming Interface				
(circuit schematic)				
*Dieselguard	GSE161	1	8	2023-04-11
Radio Data Link V2				
Schematic				
*Dieselguard	GSE162	1	1	2023-03-22
Terminal Board				
Schematic				
DMM Programming Interface	GSP014	5	0	2017-10-20
(pcb layout)			_	
*Dieselguard	GSP017	7	2	2023-02-06
Diesel Machine Monitor Main PCB (pcb design)				







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Certificate No.: ANZEx 05.4010X Current Issue: 6 Date of Issue: 2023-08-08

Document Title	Document Number	Pages / Sheets	Revision	Date
DieselGuard Gas Sampler External Battery General Arrangement	GSZ023	1	0	2017-08-28
DieselGuard Gas Sampler External Battery Epoxy Resin Encapsulation	GSZ024	1	0	2017-08-28
*Dieselguard Side Label Certification Detail	GSZ029	1	1	2023-02-06
*DIESELGUARD DIESEL MACHINE GAS MONITOR USER DOCUMENTATION INCLUSION	GSZ031	4	1	2023-07-26

Note: An \* is included before the title of documents that are new or revised



