



EVERY  
CONNECTION  
COUNTS

*CV-1981/CV1983 Series Thermogun*

## **RoHS 2 TECHNICAL FILE**



## CONTENT

•This technical file contains following sections :

### 1. PRODUCT IDENTIFICATION

- description
- picture (optional)
- list of components
- list of suppliers
- applicable EEE category
- applicable exemptions

### 2. RISK ASSESSMENT

- approach
- material risk
- supplier risk
- part incompliance risk index (PIR-index)
- required level of technical documentation

### 3. EVALUATION OF DOCUMENTATION

- principle
- evaluation criteria

### 4. REFERENCES

### 5. OVERVIEW TABLE

**PRODUCT IDENTIFICATION**

**DESCRIPTION**

**PICTURE (optional)**

product group Hot air Gun :

GPL 729

CV-1983-120V-2700W-UK	EG2024-000
CV-1983-220V-2260W	773898-000
CV-1983-220V-2260W-UK	985426-000
CV-1983-220V-3060W	538361-000
CV-1983-220V-3060W-UK	231866-000
Triac "S"/Triac "S" PID	
CV-1981-110V-1460W-400HZ	461365-000
CV-1981-120V1600W-CANMK2	A42716-000
CV-1981-120V1600W-UKMK2 Gun UK Version	E95798-000
CV-1981-230V1600WMK2 Gun Europe Version	813914-000
CV-1981-230V1600W-SEVMK2 Gun Swiss Version	F25836-000
CV-1981-230V1600W-UKMK2 Gun UK Version	340970-000
CV-1981-42V-1000W-NPMK2	F67999-000
CV-1981-230V1600WPID	958770-000.
CV-1981-230V1600W-UKPIDF	385828-000
CV-1981-120V-1600W-UKPID	928826-000



serial number

N/A

New Tools Oct 2014 and onwards

New Tools Oct 2014 and onwards

CV1983-ST-230V3400W-EU	EG0998-000
CV1983-ST-230V2300W-EU	EG1100-000
CV1983-ST-120V2400W-CEE	EG1102-000
CV1983-ST-230V3400W-CEE	EG1104-000
CV1981-ATPID-230V1600W-EU	EG1106-000
CV1981-ATPID-230V1600W-UK	EG1108-000
CV1981-ATPID-120V1600W-US	EG1110-000
CV1981-ATPID120V1600W-CEE	EG1112-000
CV1981-ST-230V1600W-EU	EG1114-000
CV1981-ST-230V1600W-CH	EG1115-000
CV1981-ST-230V1600W-UK	EG1116-000
CV1981-ST-120V1600W-US	EG1118-000
CV1981-ST-120V1600W-UK	EG1120-000



Spares for CV-1981MK2-PID –CV-1983M2

CV-1983-M2-230V-2200W-ELE	179178-000
CV-1983-M2-230V-3060W-ELE	091282-000
CV-1983-M2-230V-2200W-ELE	D40442-000
CV-1983-M2-230V-3060W-ELE	123906-000

**LIST OF COMPONENTS**

All components are listed in the overview table.

**LIST OF SUPPLIERS**

All suppliers are listed in the overview table.

**APPLICABLE EEE CATEGORY**

6.electrical and electronic tools  
*Evaluation document*

**APPLICABLE EXEMPTIONS (if any)**

*None*

## RISK ASSESSMENT

### GENERAL APPROACH

- TE Connectivity considers following levels of technical documentation, ranked by effectiveness :
  1. internal or third party test reports
  2. full material declarations (FMD)
  3. part specific statements of compliance (SoC)
  4. generic statements of compliance *not used by TE*
  5. generic contractual agreements *not used by TE*
- TE Connectivity is never relying on generic contractual agreements or generic statements of compliance to fulfill technical documentation requirements.
- The necessity of a detailed risk assessment will be based on the availability of test data :
  - if TE already has test data available : no need for a detailed risk assessment; the test data, being the highest possible level of documentation, will be used by default.
  - if TE has no test data available : a detailed risk assessment, as described below, will determine the required technical documentation.

### DETAILED RISK ASSESSMENT METHODOLOGY

- MATERIAL RISK + SUPPLIER RISK ⇒ PART INCOMPLIANCE RISK ⇒ REQUIRED TECHNICAL DOCUMENTATION
- The different building blocks of this methodology are explained below.

## **RISK ASSESSMENT (continued)**

### **MATERIAL RISK**

- Following TE's corporate compliance validation specification TEC-138-703 or Business Unit specific compliance specifications, TE Business Units evaluate their material risk.
- Although assessment procedures and scoring systems may differ between BU's, in the end all scores are to be transferred to a low - medium - high material risk evaluation.
- This material risk evaluation for every part is documented in the overview table.

### **SUPPLIER RISK**

- Following TE's corporate compliance validation specification TEC-138-703 or Business Unit specific quality, supplier auditing or compliance specifications, TE Business Units assess their supply chain and evaluate their suppliers.
- Although assessment procedures and scoring systems may differ between BU's, in the end all scores are to be transferred to a low - medium - high supplier compliance risk evaluation.
- This supplier compliance risk evaluation for every supplier is documented in the overview table.

**RISK ASSESSMENT (continued)**

**PART INCOMPLIANCE RISK index (PIR-index)**

- The PIR-index combines the material risk evaluation and the supplier risk evaluation into an overall low-medium-high part incompliance risk ranking.
- The material risk is the main driving factor for the PIR-index, with a beneficial influence for trustworthy suppliers.

PIR-index		SUPPLIER COMPLIANCE RISK EVALUATION			
		LOW	MEDIUM	HIGH	
MATERIAL RISK EVALUATION	LOW	⇒	LOW	LOW	LOW
	MEDIUM	⇒	LOW	MEDIUM	MEDIUM
	HIGH	⇒	LOW	MEDIUM	HIGH

- The PIR-index for every part/supplier-combination is documented in the overview table.

**RISK ASSESSMENT (continued)**

**REQUIRED LEVEL OF TECHNICAL DOCUMENTATION**

- Different levels of technical documentation, ranked by effectiveness, are :
  1. internal or third party test reports
  2. full material declarations (FMD)
  3. part specific statements of compliance (SoC)
  4. generic statements of compliance *not used by TE*
  5. generic contractual agreements *not used by TE*
- TE Connectivity is never relying on generic contractual agreements or generic statements of compliance.
- The PIR-index (material risk X supplier risk) determines the required level of technical documents for documenting the part's compliance with the RoHS substance restrictions.

required MINIMUM level of technical documentation		SUPPLIER RISK		
		LOW	MEDIUM	HIGH
MATERIAL RISK	LOW	⇒ supplier SoC	supplier SoC	supplier SoC
	MEDIUM	⇒ supplier SoC	supplier FMD or supplier test report	supplier FMD or supplier test report
	HIGH	⇒ supplier SoC	supplier FMD or supplier test report	internal or 3rd party test report

- The required technical documentation for every part is documented in the overview table.



## EVALUATION OF DOCUMENTATION

### PRINCIPLE

- All technical documentation needs to be evaluated whether the document is of sufficient quality to be included and can be used to confirm that the component meets the substance restrictions of RoHS2.
- The evaluation is documented in the overview table.

### EVALUATION CRITERIA

- Following is a non-exhaustive list of criteria to take into account for the evaluation of supplier answers/test reports :
  - clear identification of supplier or test lab / letterhead
  - date of answer/test report
  - location of test lab and name of tester
  - analytical test method used for the test
  - applicable legislation stated
  - clear product identification
  - ISO 17025 certification of test lab
  - contact for further information
  - no unacceptable waiver statements
  - description of the conclusion of the testing / confirmation that all results actually meet substance restrictions limits
  - signature

**Leister Documentation of compliance. Leister manufacture's /supplies TE heat gun products and components referenced in the documentation.**

**C.E. Conformity**

**Directives: 2006/42, 2004/108, 2006/95**

**Harmonized Standards: EN 12100-1, EN 12100-2, EN 60204-1, EN 14121-1, EN 55014-1, EN 55014-2, EN 50366, EN 62233, EN 61000-3-2, EN 61000-3-3, EN 60335-2-45**

**Signed off by Leister.**



EC declaration of conformity  
(in terms of the EC machinery directive 2006/42;

Designation Hot Air Tool  
Type Electron  
Option -  
EC directive(s) 2006/42/EC (Machinery Directive)  
2004/108/EC (EMC Directive)  
2006/95/EC (Low Voltage Directive)  
2011/65/EU (RoHS Directive); no exemptions applied  
Harmonised standards EN 12100:2010

EN 55014-1:2006 + A1:2009  
EN 55014-2:1997 + A1:2001 + A2:2008  
EN 61000-3-2:2006 + A1:2009 + A2:2009  
EN 61000-3-3:2008  
EN 62233:2008  
EN 60335-1:2002 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008  
EN 60335-2-45:2002 + A1:2008  
EN 50581:2012



Designation Hot Air Tool  
Type Triac ST  
Option -  
EC directive(s) 2006/42/EC (Machinery Directive)  
2004/108/EC (EMC Directive)  
2006/95/EC (Low Voltage Directive)  
2011/65/EU (RoHS Directive); no exemptions applied  
Harmonised standards EN 12100:2010  
EN 55014-1:2006 + A1:2009  
EN 55014-2:1997 + A1:2001 + A2:2008  
EN 61000-6-2:2005  
EN 61000-3-2:2006 + A1:2009 + A2:2009  
EN 61000-3-3:2008  
EN 62233:2008  
EN 60335-1:2002 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008 + A14:2010 + A15:2011  
EN 60335-2-45:2002 + A1:2008



Designation Hot Air Tool  
Type Triac AT  
Option -  
EC directive(s) 2006/42/EC (Machinery Directive)  
2004/108/EC (EMC Directive)  
2006/95/EC (Low Voltage Directive)  
2011/65/EU (RoHS Directive); no exemptions applied  
Harmonised standards EN 12100:2010  
EN 55014-1:2006 + A1:2009 + A2:2011  
EN 55014-2:1997 + A1:2001 + A2:2008  
EN 61000-6-2:2005  
EN 61000-3-2:2006 + A1:2009 + A2:2009  
EN 61000-3-3:2008  
EN 62233:2008  
EN 60335-1:2012  
EN 60335-2-45:2002 + A1:2008 + A2:2012  
EN 50581:2012



Designation Hot Air Tool  
Type Triac S, Triac PID  
Option -  
EC directive(s) 2006/42/EC (Machinery Directive)  
2004/108/EC (EMC Directive)  
2006/95/EC (Low Voltage Directive)  
2011/65/EU (RoHS Directive); no exemptions applied  
Harmonised standards EN 12100:2010  
EN 55014-1:2006 + A1:2009  
EN 55014-2:1997 + A1:2001 + A2:2008

EN 61000-6-2:2005  
EN 61000-3-2:2006 + A1:2009 + A2:2009  
EN 61000-3-3:2008  
EN 62233:2008  
EN 60335-1:2002 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008  
EN 60335-2-45:2002 + A1:2008  
EN 50581:2012

## REFERENCES

### EU documents

- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment
- EN 50581 (2012) : Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

### TE Connectivity corporate compliance documents

- TEC-138-703 : Product Compliance Validation Specification



CV-1981-PID-S-BRSH42V120V	848298-000	
CV-1981-PID-S-FAN	142620-000	
CV-1981-PID-S-MOTOR-120V	665184-000	
CV-1981-PID-S-MOTOR-230V	680986-000	
CV-1981-PID-S-STAND	767328-000	
CV-1981-PID-S-TEMP-LIM-SW	063152-000	
CV-1981-PID-S-TRIAC	037444-000	

NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES

CV1983-ST-230V3400W-EU	EG0998-000
CV1983-ST-230V2300W-EU	EG1100-000
CV1983-ST-120V2400W-CEE	EG1102-000
CV1983-ST-230V3400W-CEE	EG1104-000
CV1981-ATPID-230V1600W-EU	EG1106-000
CV1981-ATPID-230V1600W-UK	EG1108-000
CV1981-ATPID-120V1600W-US	EG1110-000
CV1981-ATPID120V1600W-CEE	EG1112-000
CV1981-ST-230V1600W-EU	EG1114-000
CV1981-ST-230V1600W-CH	EG1115-000
CV1981-ST-230V1600W-UK	EG1116-000
CV1981-ST-120V1600W-US	EG1118-000
CV1981-ST-120V1600W-UK	EG1120-000

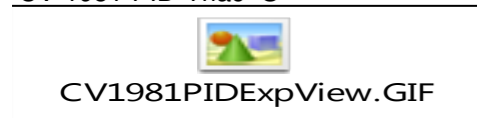
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NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES

**Spares for CV-1981MK2-PID –CV-1983M2**

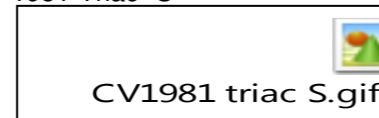
CV-1983-M2-230V-2200W-ELE	179178-000
CV-1983-M2-230V-3060W-ELE	091282-000
CV-1983-M2-230V-2200W-ELE	D40442-000
CV-1983-M2-230V-3060W-ELE	123906-000

NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES
NO	HIGH	LOW	LOW	supplier FMD	YES

CV-1981-PID-Triac "S"



CV-1981-Triac "S"



Triac AT



Triac ST



Electron



Leister Documentation of compliance. Leister manufacture's /supplies TE heat gun products and components referenced in the documentation.

C.E. Conformity

Directives: 2006/42, 2004/108, 2006/95

Harmonized Standards: EN 12100-1, EN 12100-2, EN 60204-1, EN 14121-1, EN 55014-1, EN 55014-2, EN 50366, EN 62233, EN 61000-3-2, EN 61000-3-3, EN 60335-2-45

Signed off by Leister.

EC declaration of conformity

(in terms of the EC machinery directive 2006/42;

Designation Hot Air Tool

Type Electron

Option -

EC directive(s) 2006/42/EC (Machinery Directive)

2004/108/EC (EMC Directive)

2006/95/EC (Low Voltage Directive)

2011/65/EU (RoHS Directive); no exemptions applied

Harmonised standards EN 12100:2010

EN 55014-1:2006 + A1:2009

EN 55014-2:1997 + A1:2001 + A2:2008

EN 61000-3-2:2006 + A1:2009 + A2:2009

EN 61000-3-3:2008

EN 62233:2008

EN 60335-1:2002 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008

EN 60335-2-45:2002 + A1:2008

EN 50581:2012

Designation Hot Air Tool

Type Triac ST

Option -

EC directive(s) 2006/42/EC (Machinery Directive)

2004/108/EC (EMC Directive)

2006/95/EC (Low Voltage Directive)

2011/65/EU (RoHS Directive); no exemptions applied

Harmonised standards EN 12100:2010

EN 55014-1:2006 + A1:2009

EN 55014-2:1997 + A1:2001 + A2:2008

EN 61000-6-2:2005

EN 61000-3-2:2006 + A1:2009 + A2:2009

EN 61000-3-3:2008

EN 62233:2008

EN 60335-1:2002 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008 + A14:2010 + A15:2011

EN 60335-2-45:2002 + A1:2008

**LEISTER**<sup>®</sup>

PLASTIC WELDING

PROCESS HEAT

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#### EC declaration of conformity

(in terms of the EC machinery directive 2006/42/EC; Appendix II A)

#### Leister Technologies AG

Galileo-Strasse 10, CH-6056 Kaegiswil/Switzerland

hereby declares the machine described below, released by us, fulfills the provisions of the following EC directive(s):

<b>Designation</b>	<b>Hot Air Tool</b>
<b>Type</b>	<b>Electron</b>
<b>Option</b>	-
<b>EC directive(s)</b>	2006/42/EC (Machinery Directive) 2004/108/EC (EMC Directive) 2006/95/EC (Low Voltage Directive) 2011/65/EU (RoHS Directive); no exemptions applied
<b>Harmonised standards</b>	EN 12100:2010 EN 55014-1:2006 + A1:2009 EN 55014-2:1997 + A1:2001 + A2:2008 EN 61000-3-2:2006 + A1:2009 + A2:2009 EN 61000-3-3:2008 EN 62233:2008 EN 60335-1:2002 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008 EN 60335-2-45:2002 + A1:2008 EN 50581:2012

Authorised documentation representative: Volker Pohl, Manager Product Conformity

Kaegiswil, 20.10.2014

  
Bruno von Wyl  
(Chief Technical Officer)

  
Andreas Kathriner  
(General Manager)





PLASTIC WELDING

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### EC declaration of conformity

(in terms of the EC machinery directive 2006/42/EC; Appendix II A)

#### Leister Technologies AG

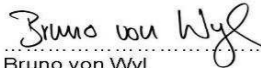
Galileo-Strasse 10, CH-6056 Kaegiswil/Switzerland

hereby declares the machine described below, released by us, fulfills the provisions of the following EC directive(s):

<b>Designation</b>	<b>Hot Air Tool</b>
<b>Type</b>	<b>Triac ST</b>
<b>Option</b>	-
<b>EC directive(s)</b>	2006/42/EC (Machinery Directive) 2004/108/EC (EMC Directive) 2006/95/EC (Low Voltage Directive) 2011/65/EU (RoHS Directive); no exemptions applied
<b>Harmonised standards</b>	EN 12100:2010 EN 55014-1:2006 + A1:2009 EN 55014-2:1997 + A1:2001 + A2:2008 EN 61000-6-2:2005 EN 61000-3-2:2006 + A1:2009 + A2:2009 EN 61000-3-3:2008 EN 62233:2008 EN 60335-1:2002 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008 + A14:2010 + A15:2011 EN 60335-2-45:2002 + A1:2008 EN 50581:2012

Authorised documentation representative: Volker Pohl, Manager Product Conformity

Kaegiswil, 20.10.2014

  
.....  
Bruno von Wyl  
(Chief Technical Officer)

  
.....  
Kathrin G.  
(General Manager)

Designation Hot Air Tool

Type Triac AT

Option -

EC directive(s) 2006/42/EC (Machinery Directive)

2004/108/EC (EMC Directive)

2006/95/EC (Low Voltage Directive)

2011/65/EU (RoHS Directive); no exemptions applied

Harmonised standards EN 12100:2010

EN 55014-1:2006 + A1:2009 + A2:2011

EN 55014-2:1997 + A1:2001 + A2:2008

EN 61000-6-2:2005

EN 61000-3-2:2006 + A1:2009 + A2:2009

EN 61000-3-3:2008

EN 62233:2008

EN 60335-1:2012

EN 60335-2-45:2002 + A1:2008 + A2:2012

EN 50581:2012

Designation Hot Air Tool

Type Triac S, Triac PID

Option -

EC directive(s) 2006/42/EC (Machinery Directive)

2004/108/EC (EMC Directive)

2006/95/EC (Low Voltage Directive)

2011/65/EU (RoHS Directive); no exemptions applied

Harmonised standards EN 12100:2010

EN 55014-1:2006 + A1:2009

EN 55014-2:1997 + A1:2001 + A2:2008

EN 61000-6-2:2005

EN 61000-3-2:2006 + A1:2009 + A2:2009

EN 61000-3-3:2008

EN 62233:2008

EN 60335-1:2002 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008

EN 60335-2-45:2002 + A1:2008

EN 50581:2012





PLASTIC WELDING

PROCESS HEAT

LASERSYSTEMS

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leister@leister.com  
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## EC declaration of conformity

(in terms of the EC machinery directive 2006/42/EC; Appendix II A)

### Leister Technologies AG

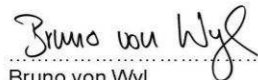
Galileo-Strasse 10, CH-6056 Kaegiswil/Switzerland

hereby declares the machine described below, released by us, fulfills the provisions of the following EC directive(s):

<b>Designation</b>	<b>Hot Air Tool</b>
<b>Type</b>	<b>Triac AT</b>
<b>Option</b>	-
<b>EC directive(s)</b>	2006/42/EC (Machinery Directive) 2004/108/EC (EMC Directive) 2006/95/EC (Low Voltage Directive) 2011/65/EU (RoHS Directive); no exemptions applied
<b>Harmonised standards</b>	EN 12100:2010 EN 55014-1:2006 + A1:2009 + A2:2011 EN 55014-2:1997 + A1:2001 + A2:2008 EN 61000-6-2:2005 EN 61000-3-2:2006 + A1:2009 + A2:2009 EN 61000-3-3:2008 EN 62233:2008 EN 60335-1:2012 EN 60335-2-45:2002 + A1:2008 + A2:2012 EN 50581:2012

Authorised documentation representative: Volker Pohl, Manager Product Conformity

Kaegiswil, 17.10.2014



Bruno von Wyl  
(Chief Technical Officer)



Andreas Kathriner  
(General Manager)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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*Click to view products by [TE Connectivity](#) manufacturer:*

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[T0058736843N](#) [CV1981-ST-230V1600W-EU](#) [848298-000](#) [CV-1981-PID-S-BRSH42V120V](#) [T0058762858](#) [HL-GEN-TUBE-REFLECTOR](#)  
[EH0600-000](#) [T0058727812](#) [17621](#) [17610](#) [HG 2220 E](#) [HG 2320 LCD](#) [HL 1620 S](#) [HL 1920 E](#) [HL 2020 E](#) [1080](#) [1082](#) [ST070618](#) [34424](#)  
[34006](#) [34040](#) [34016](#) [34438](#) [34406](#) [34038](#) [34034](#) [34026](#) [34014](#) [T0058727772N](#) [T0058736867N](#) [T0058736870N](#) [T0058727823](#)  
[T0058727821](#) [4000649009625](#) [4000649063953](#) [4007841009076](#) [4007841009083](#) [4007841009090](#) [4007841009571](#) [4007841009595](#)  
[4007841010294](#)