EC-Declaration of Conformity

Manufacturer:

Name	:	METKO Medikal ve Tıbbi Cihazlar Dış Ticaret Ltd. Şti.
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Web	:	www.metkoltd.com

Authorized European Representative:

Name	:	Medset Medizintechnik GmbH
Address	:	Curslacker Neuer Deich 66 D-21029 Hamburg \ Germany
Tel	:	0049 40 725 822-0
Fax	:	0049 40 725 822-11
E-mail	:	info@medset.com
Web	:	www.medset.com

Product: Adaptor & Extension Cable for Pulse Oximetry (SpO2) Sensors, (GMDN Code: 37808)
Adaptor & Extension Cable for Medical Temperature Probes, (GMDN Code: 37340)
Adaptor & Extension Cable for Nebulizer and Flow Sensor, (GMDN Code: 37340)
Adaptor & Extension Cable for Disposable IBP Transducers, (GMDN Code: 36550)

Reference Numbers:
AEC-51XX, AEC-52XX Pulse Oximetry (SpO2) Sensor Adaptor & Extension Cables, (XX variables: 00-99)
FMT400/AEC-XX, FMT400/AEC/Z, FMT400/AEC/Z-E, FMT400/AEC/Z-R, FMT400/AEC/Z-P, FMT400/AEC3-XX, FMT400/AEC3/Z and FMT400/AEC3/Z-E, FMT400/AEC3/Z-R Temperature Probe Adaptor & Extension Cables, (XX variables:--, BL, E, EBL, ES, EGE, EGE2, EHP, ESW, EMN, GE, HP, S, SPL, SW, MN, NKN, THT, THT2, MTR, RMMM, R, RHP, RS, RSW, RGE, RMN, RBL, P, PHP, PS, PSW, PGE, PMN, PBL)
Nebulizer and Flow Sensor Adaptor & Extension Cables AEC-ARG, AEC-ARG/GE, AEC-SLE, AEC-GEEC, AEC-FAB
IBP-YY/ZXX IBP Transducer Adaptor & Extension Cables, (YY variables: 01-10, Z variables: 0-3, XX variables: 01-50)
IBP-ADP/XXX IBP Transducer Adaptor & Extension Cables, (XXX variables: 000-100)

Classification: Class I Medical Device, Annex IX Rule 1
Conformity Assessment Procedure: Annex VII

We herewith declare that the above mentioned products meet the Essential requirements and conforms to the Medical Device Directive 93/42/EEC.

Standards:

EN 60601-1:2006	Medical electrical equipment, Part 1: General requirements for basic safety and essential performance
EN ISO 15223-1:2016	Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 1: General requirements
EN 1041:2008+A1:2013	Information supplied by the manufacturer of medical devices
EN ISO 14155:2011	Clinical investigation of medical devices for human subjects - Good clinical practice
EN ISO 14971:2012	Medical Devices - Application of Risk Management to Medical Devices
EN 62366-1:2015	Medical devices - Application of usability engineering to medical devices
EN ISO 9001:2015	Quality management systems-Requirements
EN ISO 13485:2016	Medical devices - Quality management systems - Requirements for regulatory purposes

Date of issue: 10.02.2020

Signature:

Digitally signed by Cojocaru Vladimir
Date: 2020.03.23 02:05:51 EET
Reason: MoldSign Signature
Location: Moldova

Name: Filiz ERSOY
Position: Company Manager

EC-Declaration of Conformity

Manufacturer:

Name	:	METKO Medikal ve Tıbbi Cihazlar Dış Ticaret Ltd. Şti.
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Authorized European Representative:

Name	:	Medset Medizintechnik GmbH
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Fax	:	0049 40 725 822-11
E-mail	:	info@medset.com
Web	:	www.medset.com

Product: ECG – EKG Cables & Leadwires
ECG Suction & Clamp Electrodes
ECG Adaptors for Cables and Leadwires

Reference Numbers:
E100/XYZ/I, E101/XYZ/I, E103/XYZ/I, E104/XYZ/I, E105/XYZ/I, E106/XYZ/I, E107/XYZ/I, 100/XYZ/A, E101/XYZ/A, E103/XYZ/A, E104/XYZ/A, E105-XYZ/A, E106/XYZ/A and E107/XYZ/A Series **Diagnostic EKG Cables** (X: A to Z; Y: N, R; Z: 0, B, G, P and S); E100/MDR/GI, E100/MDR/GA, E100/MDR/SI and E100/MDR/SA **Diagnostic EKG Cables**; E200-YXXX/Z, E201-YXXX/Z, E202-YXXX/Z, E204-YXXX/Z, E205-YXXX/Z, E206-YXXX/Z, E207-YXXX/Z, E208-YXXX/Z and E209-YXXX/Z Series **ECG Cables** (Y: 3, 4, 5, 6; XXX: (000-999); Z: SA, SI, GA, GI, VA, VI, 0A, 0I); E21-XX, E22-XX, E23-XX, E31-XX, E32-XX, E33-XX, E40-XX, E41-XX, E42-XX, E43-XX, E51-XX, E52-XX, E53-XX, E61-XX, E62-XX, E63-XX, E71-XX, E72-XX, E73-XX, E80-XX, E81-XX, E82-XX, E83-XX, E91-XX, E92-XX and E93-XX Series **ECG Leadwires set** (XX: 3A, 3I, 5A, 5I, 6A, 6I, 3IT, 3AT, 5IT, 5AT, 3AN, 3IN, 5AN, 5IN, 3AM and 3IM); MT32X, MT52X, MT62X Series **ECG Leadwires set** (X: I, A); E21-XX, E22-XX, E23-XX, E31-XX, E32-XX, E33-XX, E41-XX, E42-XX, E43-XX, E51-XX, E52-XX, E53-XX, E61-XX, E62-XX, E63-XX, E71-XX, E72-XX, E73-XX, E81-XX, E82-XX, E83-XX, E91-XX, E92-XX and E93-XX Series **ECG Leadwires** (XX: 0C, 0L, 0R, 0N, 0F, 0V, LA, RA, RL and LL); E32-XX-OR **ECG Leadwires set** (XX: 3I, 3A, 5I, 5A, 3IM, 3AM); E82-XX-OR **ECG Leadwires set** (XX: 3I, 3A); E101XX/10, E102XX/10, E103XX/10, E104XX/10, E105XX/10, E112XX/10, E117XX/10, E118XX/10, E119XX/10, E120XX/10 and E121XX/10 Series **Diagnostic EKG Leadwires set** (XX: BI, SI, GI, PI, BA, SA, GA and PA); E101XX/YY, E102XX/YY, E103XX/YY, E104XX/YY, E105XX/YY, E112XX/YY, E117XX/YY, E118XX/YY, E119XX/YY, E120XX/YY and E121XX/YY Series **Diagnostic EKG Leadwires** (XX: BI, SI, GI, PI ,BA, SA, GA and PA), (YY: R, N, F, L, C1, C2, C3, C4, C5, C6, RA, RL, LA, LL, V1, V2, V3, V4, V5, V6, 3A, 3B, 5A, 5B); E106XX/5, E107XX/5, E108XX/5, E109XX/5, E110XX/5, E111XX/5, E113XX/4, E114XX/6 and E122XX/6 Series **Diagnostic EKG Leadwires set** (XX: BI, SI, GI, PI, BA, SA, GA and PA); E110GX/5-OR and E111GX/5-OR **Diagnostic EKG Leadwires set** (X: I, A); HLXXZ-YYZ Series **ECG Holter Leadwires** (XX: 01-20; Z: A, B, C, D, E or empty; YY: 01-20 or empty); SE1, SE2 **ECG Suction Electrode set**, CEAI1, CEAI2, CEAA1, CEAA2 **ECG Clamp Electrodes**, MTM/01 **Multi Parameter Cable,** BS3, BS4, BG3, BG4, BA4 **ECG Adaptors**

Classification: Class I Medical Device, Annex IX Rule 1
Conformity Assessment Procedure: Annex VII
GMDN Code: 35562

We herewith declare that the above mentioned products meet the Essential requirements and conforms to the Medical Device Directive 93/42/EEC.

Standards:

EN 60601-1:2006	Medical electrical equipment, Part 1: General requirements for basic safety and essential performance
EN ISO 15223-1:2016	Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 1: General requirements
EN 1041:2008+A1:2013	Information supplied by the manufacturer of medical devices
ANSI/AAMI EC53:2013	ECG Trunk cables and leadwires
EN ISO 14155:2011	Clinical investigation of medical devices for human subjects - Good clinical practice
EN ISO 14971:2012	Medical Devices - Application of Risk Management to Medical Devices
EN 62366-1:2015	Medical devices - Application of usability engineering to medical devices
EN ISO 9001:2015	Quality management systems-Requirements
EN ISO 13485:2016	Medical devices - Quality management systems - Requirements for regulatory purposes

Date of issue: 05.02.2020

Signature:

Name: Filiz ERSOY
Position: Company Manager

EC-Declaration of Conformity

Manufacturer:

Name	:	METKO Medikal ve Tıbbi Cihazlar Dış Ticaret Ltd. Şti.
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Authorized European Representative:

Name	:	Medset Medizintechnik GmbH
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Product: Electrosurgery Cables & Accessories

Electrosurgery Bipolar Cables, (GMDN Code: 35041)
Electrosurgery Monopolar Cables, (GMDN Code: 61876)
Electrosurgery Dispersive Cables, (GMDN Code: 35041)
Electrosurgery Bipolar Adaptors, (GMDN Code: 35041)
Electrosurgery Disposable Grounding Plates, (GMDN Code: 11500)
Electrosurgery Reusable Grounding Pads, (GMDN Code: 42551)
Electrosurgery Reusable Connection Cable for Universal Patient Return Electrodes, (GMDN Code: 35041)
Tip Clean Sponge, (GMDN Code: 35043)

Reference Numbers:
ESU-BP/XXY Series, ESU-BP/CONA, ESU-BP/CONAL, ESU-BP/OWE, ESU-BP/FWE, ESU-BP/BWE, ESU-BP/LWE, ESU-BP/GYR, ESU-BP/GYRL (XX variables: AA to ZZ; Y variables: -, L, T, TL)
ESU-MP/XXY Series (XX variables: AA to ZZ; Y variables: -, L)
RDC-XXY Series (X variables: A to Z; Y variables: 3, 5, 3A and 5A)
ESU-ADP/XX Series (XX variables: 01 to 10)
RGPC-XX Series (XX variables: 00 to 99)
FMT-MX, FMT-BX and FMT-CXX Series (X variable: A, P), (XX variable: BA, BP, MA, and MP)
FMT-RGPX Series (X variable: B, M)
FMT-MDX (X variables: 1 to 9)
TSC 01

Classification: Class I Medical Device, Annex IX Rule 1
Conformity Assessment Procedure: Annex VII

We herewith declare that the above mentioned products meet the Essential requirements and conforms to the Medical Device Directive 93/42/EEC.

Standards:

EN 60601-1:2006	Medical electrical equipment, Part 1: General requirements for basic safety and essential performance
EN IEC 60601-2-2:2018	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
EN ISO 15223-1:2016	Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 1: General requirements
EN 1041:2008+A1:2013	Information supplied by the manufacturer of medical devices
EN ISO 17664:2017	Sterilization of medical devices - Information to be provided by the manufacturer for the processing of re-sterilizable medical devices
EN ISO 14155:2011	Clinical investigation of medical devices for human subjects - Good clinical practice
EN ISO 14971:2012	Medical Devices - Application of Risk Management to Medical Devices
EN 62366-1:2015	Medical devices - Application of usability engineering to medical devices
EN ISO 9001:2015	Quality management systems-Requirements
EN ISO 13485:2016	Medical devices - Quality management systems - Requirements for regulatory purposes

Date of issue: 10.02.2020

Signature:

Name: Filiz ERSOY
Position: Company Manager

EC-Declaration of Conformity

Manufacturer:

Name	:	METKO Medikal ve Tıbbi Cihazlar Dış Ticaret Ltd. Şti.
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Authorized European Representative:

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Tel	:	0049 40 725 822- 0
Fax	:	0049 40 725 822-11
E-mail	:	info@medset.com
Web	:	www.medset.com

Product: Reusable and Disposable NIBP Cuffs, NIBP Hoses

Reference Numbers:

FMT-SX, FMT-SX/BPYY-Z (Reusable Cuff with bladder /Single tube/ X (size): 1, 2, 3, 4, 4L, 5, 6; YY variable: 00 to 99; Z variable: -, H, P)
FMT-DX, FMT-DX/BPYYYY (Reusable Cuff with bladder /Double tube/ X (size): 1, 2, 3, 4, 4L, 5, 6; YYYY variable: 0000 to 9999)
FMT-SBX, FMT-SBX/BPYY-Z (Reusable Cuff without bladder /Single tube/ X (size): 1, 2, 3, 4, 4L, 5, 6; YY variable: 00 to 99; Z variable: -, H, P)
FMT-DBX, FMT-DBX/BPYYYY (Reusable Cuff without bladder /Double tube/ X (size): 1, 2, 3, 4, 4L, 5, 6; YYYY variable: 0000 to 9999)
FMT-DSX, FMT-DSXS, FMT-DSXT, FMT-DSX/BPYY-Z, FMT-DSXS/BPYY-Z, FMT-DSXT/BPYY-Z (Single Patient Use Cuff /Single tube/ X: sizes, 1 to 13; YY variable: 00 to 99; Z variable: -, H, P)
FMT-DDX, FMT-DDXS, FMT-DDXT, FMT-DDX/BPYYYY, FMT-DDXS/BPYYYY, FMT-DDXT/BPYYYY (Single Patient Use Cuff /Double tube/ X: sizes, 1 to 13; YYYY variable: 0000 to 9999)
FMT-ASX, FMT-ASX/BPYY-Z (ABPM Cuff / X (size): 3, 4, 5; YY variable: 00 to 99; Z variable: -, H, P)
SBPXX/BPXX-Z (Single Line Hose, 3.0 m) (XX variable: 00 to 99; Z variable: -, H, P)
DBPXXXX/BPXXXX (Double Line Hose, 3.0 m) (XXXX variable: 00 to 99 or 0000 to 9999)
CEBPXX/BPXX-Z (Coiled Extendable Hoses) (XX variable: 00 to 99; Z variable: -, H, P)

Classification: Class I Medical Device, Annex IX Rule 1
Conformity Assessment Procedure: Ek VII
GMDN Codes: 34978, 37326

We herewith declare that the above mentioned products meet the Essential requirements and conforms to the Medical Device Directive 93/42/EEC.

Standards:

EN 60601-1:2006	Medical electrical equipment, Part 1: General requirements for basic safety and essential performance
EN ISO 15223-1:2016	Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 1: General requirements
EN 1041:2008+A1:2013	Information supplied by the manufacturer of medical devices
EN ISO 81060-1:2012	Non-invasive sphygmomanometers - Part 1: Requirements and test methods or non-automated measurement type
EN 1060-3:1997+A2:2009	Non-invasive sphygmomanometers - Part 3: Supplementary requirements for electromechanical blood pressure measuring systems
EN ISO 14155:2011	Clinical investigation of medical devices for human subjects - Good clinical practice
EN ISO 14971:2012	Medical Devices - Application of Risk Management to Medical Devices
EN 62366-1:2015	Medical devices - Application of usability engineering to medical devices
EN ISO 9001:2015	Quality management systems-Requirements
EN ISO 13485:2016	Medical devices - Quality management systems - Requirements for regulatory purposes

Date of issue: 03.01.2020

Signature:

Name: Filiz ERSOY
Position: Company Manager

EC-Declaration of Conformity

Manufacturer:

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Address	:	İvedik O. S. B. Ağaç İşleri Sanayi Sitesi 1354 Cad. 1358 Sok. No:9 06378 Yenimahalle - Ankara \ Turkey
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Fax	:	+ 90 312 387 12 51
E-mail	:	metko@metkoltd.com
Web	:	www.metkoltd.com

Authorized European Representative:

Name	:	Medset Medizintechnik GmbH
Address	:	Curslacker Neuer Deich 66 D-21029 Hamburg \ Germany
Tel	:	0049 40 725 822- 0
Fax	:	0049 40 725 822-11
E-mail	:	info@medset.com
Web	:	www.medset.com

Product: Pulse Oximetry (SpO2) Sensors

Reference Numbers:

Non- Sterile Reusable Pulse Oximetry (SpO2) Sensors; FMT-RAF/XXX, FMT-RAFB/XXX, FMT-RPF/XXX, FMT-RYS/XXX, FMT-RAS/XXX, FMT-RASB/XXX, FMT-REC/XXX, FMT-RPS/XXX, FMT-RIS/XXX, FMT-RNS/XXX, FMT-RWS/XXX (XXX variable: ADC-L, AT-L, BCI, BCI-L, BCI-LR, BLT, BLT-LC, BLT-LR, BLT-LV, BRC-L, BYS-L, CHC-LR, CMN-LR, CNC-LR, CRD-L, CRT, CRT-L, CRT-LL, CSI, DGC-L, DLP, DLW-L, DTS, DTS-L, DTX, DTX-L, DXT, DXT-L, EDN-LR, EMT-LD, EMT-LO, GLD-LL, GLD-LR, GOX-L, GTG-LR, HPB-L, HPS-L, IFM-L, INV-L, KNT-L, LHM, MEK, MEK-L, MEK-LD, MEK-LH, MEM-L, MMH-L, MND-L, MND-LO, MNM-L, MRQ-L, MRQ-LM, MRQ-LO, MSD, MSM-L, MTN-L, MTN-LM, MTN-LO, NKN, NKN-L, NKN-LC, NKN-LO, NKN-LR, NLC, NLC-L, NLC-LN, NLO, NLO-L, NLO-LO, NON, NON-L, NTG, NTG-L, NTG-LR, NVM, NVM-L, OHM-L, OHM-S, OXN, OXY, PLC, PLC-L, PLM-LR, PLS, PLS-L, PRN-LR, PTS-L, RGB-LR, RSD-L, SHA-L, SIE-L, SPL-L, SW-L, TRS-L, TRT-L, UTS-L)
SENSORPLUS SP01XXXX, SP02XXXX, SP03XXXX, SP04XXXX, SP05XXXX. (XXXX variable: 0001 to 0089)
Sterile Disposable Pulse Oximetry (SpO2) Sensors; FMT-DAF/XXX, FMT-DPF/XXX, FMT-DIF/XXX, FMT-DNF/XXX, FMT-DVF/XXX (XXX variable: BCI, CSI, DTX, MEK, MSD, MSM, NKN, NLC, NLO, NON, NVM, OHM, OXN, OXY)
Non-Sterile Disposable Pulse Oximetry (SpO2) Sensors; SENSORPLUS SP06XXXX, SP07XXXX, SP08XXXX, SP09XXXX, SP10XXXX
(XXXX variable: 0010 to 0071)

Classification: Class II b Medical Device, Annex IX Rule 10
GMDN Codes: 37808, 31658
Conformity Assessment Procedure: Annex II-3

We herewith declare that the above mentioned products meet the Essential requirements and conforms to the Medical Device Directive 93/42/EEC with Medical Device Directive 2007/47/EC.

Standards:

EN 60601-1:2006	Medical electrical equipment, Part 1: General requirements for basic safety and essential performance
EN 60601-1-2:2015	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests (IEC 60601-1-2:2014 4th Ed.)
EN ISO 15223-1:2016	Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 1: General requirements
EN 1041:2008+A1:2013	Information supplied by the manufacturer of medical devices
EN ISO 10993-1:2009	Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process
EN ISO 10993-10:2013	Biological evaluation of medical devices - Part 10: Tests for irritation and skin sensitization
EN ISO 80601-2-61:2011	Medical electrical equipment-Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment
EN ISO 14155:2011	Clinical investigation of medical devices for human subjects - Good clinical practice
EN ISO 14971:2012	Medical Devices - Application of risk management to medical devices
EN 62366-1:2015	Medical devices - Application of usability engineering to medical devices
EN ISO 14698-1:2003	Cleanrooms and associated controlled environments - Biocontamination control - Part 1: General principles and methods
EN 14698-2:2003	Cleanrooms and associated controlled environments - Biocontamination control - Part 2: Evaluation and interpretation of biocontamination data
EN ISO 14644-2:2015	Cleanrooms and associated controlled environments - Part 2: Specifications for monitoring and periodic testing to provide continued compliance with ISO 14644-1
EN ISO 14644-3:2005	Cleanrooms and associated controlled environments - Part 3: Test methods
EN ISO 14644-4:2001	Cleanrooms and associated controlled environments - Part 4: Design, construction and start up
ISO 14644-5:2004	Cleanrooms and associated controlled environments - Part 5: Operations
AAMI/ISO 11135:2014	Sterilization of health care products - Ethylene oxide - Requirements for development, validation and routine control of a sterilization process for medical devices
EN ISO 11737-1:2018	Sterilization of medical devices – Microbiological methods - Part 1: Determination of a population of microorganisms on products
EN ISO 11737-2:2009	Sterilization of medical devices – Microbiological methods - Part 2: Tests of sterility performed in the definition, validation and maintenance of a sterilization process
EN ISO 14644-1:2015	Cleanrooms and associated controlled environments Part 1: Classification of air cleanliness by particle concentration
EN ISO 10993-7:2008	Biological evaluation of medical devices - Part 7: Ethylene oxide sterilization residuals
EN ISO 10993-11:2010	Biological evaluation of medical devices - Part 11: Systemic toxicity tests
EN ISO 11607-1:2017	Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems
EN ISO 11607-2:2017	Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes
EN ISO 9001:2015	Quality management systems-Requirements
EN ISO 13485:2016	Medical devices - Quality management systems - Requirements for regulatory purposes
MDD 93/42/EEC	Council Directive 93/42/EEC of 14 June concerning medical devices
MDD 2007/47/EC	Council Directive 2007/47/EC of 5 September 2007 European Parliament concerning medical devices
RoHS 2011/65/EU	Council Directive 2011/65/EU of 8 June 2011 Restriction of the use of certain hazardous substances

Notified Body: **KIWA Certification Services Inc.**
ITOSB 9. Cadde No:15 Tepeören-Tuzla İstanbul / Turkey

EC-Mark: CE 1984

Number of Certificate: 1984-MDD-10-075
Start of EC Mark: 19.11.2004
Duration of Validity: 16.04.2019 – 20.11.2020
Date of issue: 16.04.2019

Signature:

Name: Filiz ERSOY
Position: Company Manager

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JUMO dTRANS p30

Pressure Transmitter

General application

Pressure transmitters are used to measure the relative (gauge) and absolute pressures in liquids or gases. The measuring device for the transmitter is a piezo-resistive element or a thin-film strain gauge. The pressure is converted into an electrical signal.

Type 404366 with terminal box

Technical data

Reference conditions
as per DIN 16086 and DIN 60770

Ranges
see order details

Overload limit
ranges 0 to 25 bar
3 x full scale

ranges "0 to 40 bar" up to "0 to 250 bar"
2 x full scale

ranges "0 to 400 bar" up to "0 to 600 bar"
1.5 full scale

Bursting pressure
ranges 0 to 40 bar
≤ 4 x full scale

ranges "0 to 60 bar" up to "0 to 100 bar"
8 x full scale

ranges "0 to 160 bar" up to "0 to 400 bar"
5 x full scale

ranges 0 to 600 bar
3 x full scale

Parts in contact with medium
normally:
Stainless steel 316 Ti/316 L

for range ≥ 60 bar:
Stainless steel 316 Ti/630

Output
0 to 20 mA, three-wire,
burden ≤ (U_B-12 V) ÷ 0.02 A

4 to 20 mA, two-wire,
burden ≤ (U_B-10 V) ÷ 0.02 A

4 to 20 mA, three-wire,
burden ≤ (U_B-12 V) ÷ 0.02 A

0.5 to 4.5 V, burden ≥ 50 kΩ

1 to 6 V, burden ≥ 10 kΩ

0 to 10 V, burden ≥ 10 kΩ

Burden error
< 0.5 % max.

Zero offset
≤ 0.3% MSP (measuring span)

Thermal hysteresis
≤ ± 0.5 % max. MSP
(within compensated temperature range)

≤ ± 1 % max. for ranges
0 to 0.25 bar
0 to 0.4 bar
0 to 0.6 bar

Ambient temperature error
within range 0 to 100 °C
(compensated temperature range)

for ranges 0.25 and 0.4 bar
zero: ≤ 0.03 %/°C typical,
≤ 0.05 %/°C max.
measuring span: ≤ 0.02 %/°C typical,
≤ 0.04 %/°C max.

for ranges above 0.6 bar
zero: ≤ 0.02 %/°C typical,
≤ 0.04 %/°C max.
span: ≤ 0.02 %/°C typical,
≤ 0.04 %/°C max.

with basic type extension 024:
zero: ≤ 0.01 %/°C

Deviation from characteristic
≤ 0.5 % MSP (limit point adjustment)

with basic type extension 023:
≤ 0.2 % MSP (limit point setting)

Hysteresis
≤ 0.1 % MSP

Repeatability
≤ 0.05 % MSP

Response time
with current output
(output 402, 405 or 406):
≤ 3 msec max.

with voltage output
(output 412, 415, 418 or 420):
≤ 10 msec max.

Stability per year
≤ 0.5 % MSP

Voltage supply
DC 10 to 30 V (output 4 to 20 mA and 1 to 6 V)

DC 5 V (output 0.5 to 4.5 V)

DC 11.5 to 30 V (output 0 to 10 V)

DC 11.5 to 30 V (output 0(4) to 20 mA)

Ripple: the voltage spikes must not go above or below the values specified for the voltage supply

Requirements: The device must be equipped with an electrical circuit that meets the requirements of EN 61010-1 with regard to "Limited-energy circuits".

max. current drawn: approx. 25 mA

Supply voltage error
≤ 0.02 % per V
(nominal supply voltage DC 24 V)

in proportion for voltage supply
DC 5 V (±0.5 V)

Permissible ambient temperature
-20 to +100 °C

Storage temperature
-40 to +125 °C

Permissible temperature of medium
-30 to +120 °C

Electromagnetic compatibility
EN 61326
interference emission: Class B[1]
noise immunity: industrial requirements

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Mechanical shock
(to IEC 68-2-27)
100 g/1 msec

Mechanical vibration
(to IEC 68-2-6)
20 g max. at 15 to 2000 Hz

Protection
with terminal box
IP65 to EN 60529
(connecting cable diameter 5 mm min., 7 mm max.)
with connecting cable
IP67 to EN 60529
with circular connector M12 × 1
IP67 to EN 60529

Housing
Stainless steel 304
Polycarbonate GF

Pressure connection
see order details;
other connections on request

Electrical connection
see order details
terminal box to DIN 43650, Form A, conductor cross-section up to 1.5 mm^2; or
attached 4-core PVC cable, length 2 m
other lengths on request

Nominal position
unrestricted

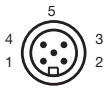
Weight
200 g

1 The product is suitable for industrial use as well as for households and small businesses.

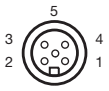
Electrical connection

Connection		Terminals		
		Plug	Cable	M12 × 1
Voltage supply DC 10 to 30 V DC 11.5 to 30 V DC 5 V		1 L+ 2 L-	white grey	1+ 3-
Output 1 to 6 V 0 to 10 V 0.5 to 4.5 V		2 - 3 +	grey yellow	3- 4+
Output 4 to 20 mA, two-wire		1 + 2 -	white grey	1+ 3-
		Proportional current 4 to 20 mA in voltage supply		
Output 0(4) to 20 mA, three-wire		2 - 3 +	grey yellow	3- 4+
Protective conductor				
Screen			black	2
Caution: Earth device (pressure connection and/or ⏚ or screen)				

Pin assignment M12 × 1



Cable box M12 × 1

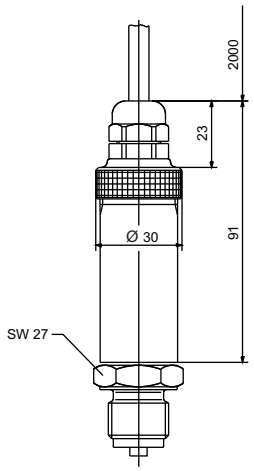


Color assignment: Cable box		
	1 WH	White
	2 BN	Brown
	3 GN	Green
	4 YE	Yellow
	5	Pressure compensation

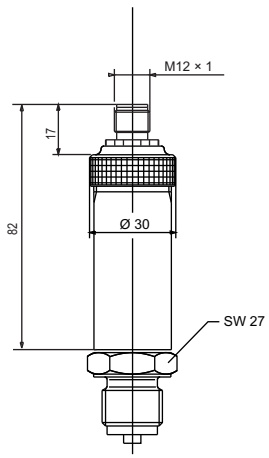
Dimensions

Electrical connection

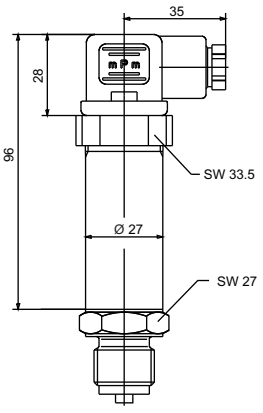
12
Attached cable



36
Round plug M12 × 1



61
With terminal box



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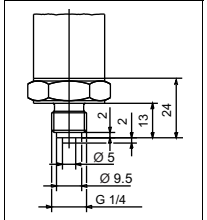
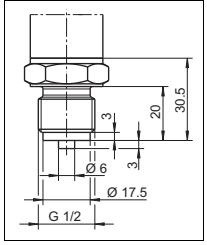
Process connections, not front-flush

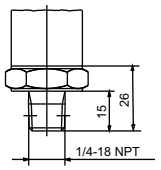
502
G 1/4



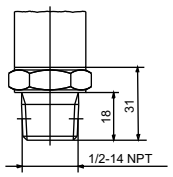
504
G 1/2 (standard)



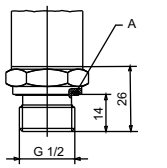
511
1/4-18 NPT



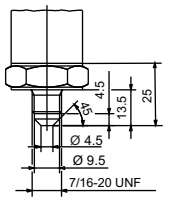
512
1/2-14 NPT



523
G 1/2 DIN 3852-11



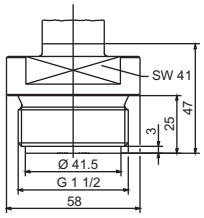
562
7/16-20 UNF



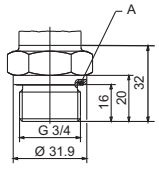
A Profile seal

Process connections, front-flush

570
G 1 1/2

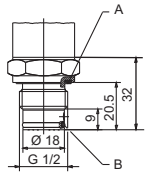


571
G 3/4



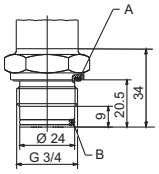
A Profile seal

574
G 1/2
with double gasket



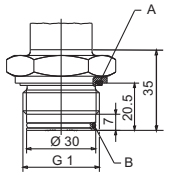
A Profile seal
B O-ring 14 × 1.78

575
G 3/4
with double gasket



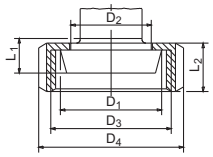
A Profile seal
B O-ring 20.35 × 1.78

576
G 1
with double gasket

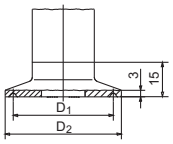


A Profile seal
B O-ring 26.7 × 1.78

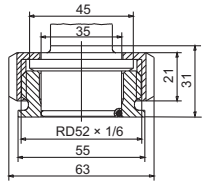
603 to 607
Taper socket with union nut



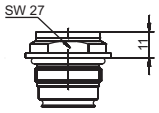
612 to 616
Clamping socket



652
Tank connection
with slotted union nut



997
JUMO PEKA
hygienic process connection



Process connection	DN	Ø D_1	Ø D_2	Ø D_3	Ø D_4	Ø L_1	Ø L_2
603	20	36.5	30	RD44 × 1/6	54	13	21
604	25	44	35	RD52 × 1/6	63	15	
605	32	50	41	RD58 × 1/6	70		
606	40	56	48	RD65 × 1/6	78		
607	50	68.5	61	RD78 × 1/6	92	16	22

Process connection	DN DIN 32676	DN (Zoll)	Nominal size ISO 2852	Ø D_1	Ø D_2
612	10		18	27.5	34
	15		10		
	20		15		
613	25	1	20	43.5	50.5
	32	1,5	25		
	40		32		
616	50	2	40	56.5	64

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Order details

	(1)	**Basic type**
404366		JUMO dTRANS p30 – Pressure Transmitter
	(2)	**Basic type extension**
000		None
023		reduced deviation of characteristic line[a]
024		reduced influence of ambient temperature[b]
999		Special version
	(3)	**Input**
451		0 to 0.25 bar relative pressure
452		0 to 0.4 bar relative pressure
453		0 to 0.6 bar relative pressure
454		0 to 1 bar relative pressure
455		0 to 1.6 bar relative pressure
456		0 to 2.5 bar relative pressure
457		0 to 4 bar relative pressure
458		0 to 6 bar relative pressure
459		0 to 10 bar relative pressure
460		0 to 16 bar relative pressure
461		0 to 25 bar relative pressure
462		0 to 40 bar relative pressure
463		0 to 60 bar relative pressure
464		0 to 100 bar relative pressure
465		0 to 160 bar relative pressure
466		0 to 250 bar relative pressure
467		0 to 400 bar relative pressure
468		0 to 600 bar relative pressure
478		-1 to 0 bar relative pressure
479		-1 to +0.6 bar relative pressure
480		-1 to +1.5 bar relative pressure
481		-1 to +3 bar relative pressure
482		-1 to +5 bar relative pressure
483		-1 to +9 bar relative pressure
484		-1 to +15 bar relative pressure
485		-1 to +24 bar relative pressure
487		0 to 600 mbar absolute pressure
488		0 to 1 bar absolute pressure
489		0 to 1,6 bar absolute pressure
490		0 to 2,5 bar absolute pressure
491		0 to 4 bar absolute pressure
492		0 to 6 bar absolute pressure
493		0 to 10 bar absolute pressure
494		0 to 16 bar absolute pressure
495		0 to 25 bar absolute pressure
998		Special range absolute pressure
999		Special range relative pressure
	(4)	**Output**
402		0 to 20 mA, three-wire
405		4 to 20 mA, two-wire
406		4 to 20 mA, three-wire
412		0,5 to 4,5 V, three-wire

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415		0 to 10 V, three-wire
418		1 to 5 V, three-wire
420		1 to 6 V, three-wire
	(5)	**Process connection**
502		G 1/4 DIN EN 837
504		G 1/2 DIN EN 837
511		1/4-18 NPT DIN EN 837
512		1/2-14 NPT DIN EN 837
523		G 1/2 DIN 3852-11
562		7/16-20 UNF
570		G 1 1/2 front-flush DIN EN ISO 228-1[c]
571		G 3/4 front-flush DIN EN ISO 228-1[c]
574		G 1/2 front-flush, with double gasket[d]
575		G 3/4 front-flush, with double gasket[c]
576		G 1 front-flush, with double gasket[c]
603		Taper socket with union nut DN 20 DIN 11851 (dairy pipe fitting)[c]
604		Taper socket with union nut DN 25 DIN 11851 (dairy pipe fitting)[c]
605		Taper socket with union nut DN 32 DIN 11851 (dairy pipe fitting)[c]
606		Taper socket with union nut DN 40 DIN 11851 (dairy pipe fitting)[c]
607		Taper socket with union nut DN 50 DIN 11851 (dairy pipe fitting)[c]
612		Clamping socket DN 10/15/20 DIN 32676[c]
613		Clamping socket DN 25/40 DIN 32676[c]
616		Clamping socket DN 50 (2“) DIN 32676[c]
652		Tank connection with union nut DN 25
997		JUMO-PEKA hygienic process connection[e]
998		Connection for pressure separator
	(6)	**Material of process connection**
20		CrNi (stainless steel)
	(7)	**Electrical connection**
12		Fixed connecting cable shielded 2 m (further length on request)
36		Round plug M12 × 1
61		Cable socket DIN EN 175301-803, Form A
	(8)	**Extra code**
000		None
452		Parts in contact with the medium electro-polished, surface roughness Ra ≤ 0.8 µm
591		Throttle in pressure duct
631		Higher humidity and vibration protection

[a] Measuring devices with reduced deviation from characteristic line are not available with process connection 574, they are only available with output 405 and only for measuring spans between 0.6 to 40 bar.
[b] Measuring devices with ambient temperature influence are not available with process connection 574, they are only available with outputs 402, 405, 406, 415 and only for measuring spans between 4 to 25 bar.
[c] Process connections 570, 571, 575, 576, 603, 604, 605, 606, 607, 612, 613, 616 are only available for measuring spans up to 25 bar.
[d] Process connection 574 is only available for measuring spans between 1 to 400 bar.
[e] Suitable process connection adapters can be found on data sheet or price sheet 409711.

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)
Order code		/		-		-		-		-		-		/	
Order example	404366	/	000	-	461	-	405	-	504	-	20	-	61	/	000

Accessories

Article	Part no.
Cable box (straight) with control cable, shielded, 4-pole, 5 m PVC cable, pressure compensation	00512341

88881115

Technical sheet

Product Name	Battery 7.4V 4.2Ah for ECG AT102 + SCHILLER
Reference	AT102+
Manufacturer	SCHILLER
Model	**Original**
Technology	Li-ion
Voltage	7.40 V
Capacitance	4.20 A/h
Weight	0.185 kg
Suitable for	MS2007 / 2010 / 2015 / Cardiopad XL / 191002703

VLAD - 400, rue Emile Dewoitine 37210 PARCAY MESLAY, FRANCE - Phone +332 47 54 08 29

88881156

Technical sheet

Product Name	Battery 6V 2.2Ah for blood (without connector) SANYO fridge/Bank
Reference	MDF137
Manufacturer of the device	SANYO
Model	**Exalium Premium**
Accumulators	Yuasa
Technology	Ni-mh
Voltage	6.00 V
Capacitance	2.20 A/h
Weight	0.150 kg
Suitable for	SANYO FRIGO/BANQUE DE SANG MDF137 / MDF-U53V / C8V1 / MBR-1404GR

VLAD - 400, rue Emile Dewoitine 37210 PARCAY MESLAY, FRANCE - Phone +332 47 54 08 29

88888843

Technical sheet

Product Name	Battery 12V 3Ah for defibrillator Cardiolife TEC76xx-ECG1350 NIHON KOHDEN
Reference	TEC76-O
Manufacturer	NIHON KOHDEN
Model	**Original**
Technology	Ni-mh
Voltage	12.00 V
Capacitance	3.00 A/h
Weight	0.590 kg
Suitable for	CARDIOLIFE TEC 55xx - 75xx - 76xx - 77xx - 5631

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