

Toshiba LF620 Manual

Electromagnetic flowmeter converter



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Introduction TOSHIBA
Combined with a multi-functional

Field Intelligent Device Series • Electromagnetic Flowmeter Converter

(combined type) or LF622 (separate type) equipped

with its original noise-suppression circuit and

advanced algorithms old (Infraigh) switches enable

parameter setting of the converter without removing

the cover. Flow Combined heiset imailter wave and a converter LF620 its 128 x 128 decombined to personal lands to be rotated eleviralistic prize and lands are suppression circuit and without opening dranged algorithms also declarated switches enable side make easy parameters etting of the converter without removing

Specifications

■ Model LF620 and LF

Input signals

Analog signal — the proportional to pr WHART School Highway Addresso bla Remole Transducer) is a communication protocol for industrial sensors recommended by the HCF (HARTICaliminication Foundation).

Milliordm 1000 16460 vice Communicator available

through TIC for performing HART device

PC or laptop .

*2: PROFIBUS is the communication protocol for of leading elligent Device Series process automation that the POSFIBUS Organiz Instead of analog control was a convention as

Electromagnetic Flowmeter Converter it is one kind of the fieldbus which digitizes all s support PROFIBUS-PA

*3: Modbus is the com Physical layer is RS485

Figure 1. LF620 Series duction Converters

Field Intelligent Device Series Combined with a multi-functional converter LF620

Electrom any projectic type to with the few regions to expressing ped with its original noise-suppression circuit and LF620

advanced algorithms. IR (Infrared) switches enable LF622 parameter setting of the converter without removing LF620F the cover. Flow direction can be set in either way, and LF622F its 128 x 128 dot matrix LCD display allows the LCD Certification number be rotated electronically to 90, 180 and 270 degrees Z01207 without opening the cover. The terminal block in LCD

Specifications make easy to wire in case of the combined type.

□ Model LF620 and LF622 converters

Input signals *1: HART protocol (Highway Addressable Remote Transducer) is a

Analog signal — the voltage signal from detector,
HCF (HART Communication Foundation).
proportional to process flow rate (For LF622
Separate type converter) separate type converter) TIC for performing HART device configurations on Digital input DI PC or laptop.

Signal type: 20 to 30Vdc voltage signal

Input resistance 2.2.7 RFIBUS is the communication protocol for factory automation and Number of inputs: process automation that the PROFIBUS Organization recommends. one point instead of analog control with a conventional analog signal (4-20mA), Note: DI cannot be used with the Modell's which digitizes all signals. Flowmeters communication. support PROFIBUS-PA.

DI function — One of this following functions of that Modicon Inc. developed. be assigned to the optional Disignal \$485.

Range switching — Selects either the higher or

lower range in the unidirectional or

bidirectional 2-range setting.

Totalizer control — Starts and stops the built-in

Fixed-value outputs — Outputs fixed-values for

current and pulse outputs Zero adjustment — Executes zero adjust (on-stream at zero flow ra

Output signals

Current output: LF620 4–20mAdc (load resistance 0 to 175020F



LF622 LF622F

Note: The currer**ர் முழ்ந்தர்**வ**ாந்தேரி ஆசிர்க்**சி**Flowmeter Converters** the PROFIBUS-PA communication.

Digital outputs — Two points are available as-

EM



Specifications

■ Model LF620 and LF

Input signals

Analog signal — the proportional to pr separate type con

Digital input DI

Signal type: 20 to Input resistance: 2 Number of inputs Note: DI cannot b

communica

DI function — One of be assigned to the op

Range switching lower range in the

bidirectional 2-rai

Totalizer control totalizer.

Fixed-value outputs current and pulse

Zero adjustment -(on-stream at zero

Output signals

Current output:

4-20mAdc (load

Note: The current the PROFII

Digital outputs — Tw follows.

Digital output DO1

Output type: Tran Number of output Output capacity: 3

Note: DO1 cannot communica

Digital output DO2

Output type: Solid polarity)

Number of output Output canacity:

MIAWSelmon Company, Inc. 4 Oxford Rd 01203-377-3525 Militorid pe Tra06460 open collector

Number of outputs: One p

Output capacity: 30Vdc, 200mA maximum

Field Intelligent Device Series

Note: DO1 cannot be used if Modb communication connection is 3 lin Electromagnetic Flowmeter Converter

Digital output DO2:

Output type: Solidstate relay output (non

polarity) Introduction Number of outputs: One point

Output capacity Canibide de a the Camera converter LF620 or 150 V ac (petrombinated, types) Ambardarfseparate type) equipped Note: DO2 cannyitheits eniginal meine our pression circuit and communication advanced algorithms. IR (Infrared) switches enable LF620,LF622he cover. Flow direction can be set in either way, and

its 128 x 128 dot matrix LCD display allows the LCD

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■ Model LF620 and LF

Input signals

Analog signal — the proportional to pr separate type conv

Digital input DI





Related Manuals for Toshiba LF620

Media Converter Toshiba LF620 Instruction Manual

Electromagnetic flowmeter converter (160 pages)

Measuring Instruments Toshiba GF630 Manual

Electromagnetic flowmeter (18 pages)

Measuring Instruments Toshiba LF410 Manual

Field intelligent device – mount-anywhere series - wafer electromagnetic flowmeter (15 pages)

Measuring Instruments Toshiba LF620F Instruction Manual

Electromagnetic flowmeter converter (162 pages)

Measuring Instruments Toshiba LF654 Instruction Manual

Lf654 series electromagnetic flowmeter detector (51 pages)

Measuring Instruments Toshiba LF622 Quick Start Manual

Magmeter (13 pages)

Measuring Instruments Toshiba GF642 Manual

Electromagnetic flowmeter (11 pages)

Measuring Instruments Toshiba LF470 Quick Start Manual

Electromagnetic flowmeter field intelligent device (8 pages)

Media Converter Toshiba TOSVERT VF-AS3 Instruction Manual

(32 pages)

Toshiba VEC008Z - Digital Encoder Manual

(article)

Media Converter Toshiba TOSVERT VF-S15 Series Manual

(51 pages)

Media Converter Toshiba VEC008Z Installation Manual

Digital encoder (2 pages)

Media Converter Toshiba TOSVERT VF-AS1 Instruction Manual

Expansion io card option 2 (19 pages)

Media Converter Toshiba TOSVERT VF-AS3 Instruction Manual

Rs485 communication function (20 pages)

Media Converter Toshiba USB001Z Instruction Manual

Usb-to-serial conversion unit (8 pages)

Media Converter Toshiba TOSVERT VF-nC3 Instruction Manual

(66 pages)

Summary of Contents for Toshiba LF620

Page 1 Field Intelligent Device Series LF620,LF622 Electromagnetic Flowmeter Converter Introduction Specifications Combined with a multi-functional converter LF620 ☐ Model LF620 and LF622 converters (combined type) or LF622 (separate type) equipped Input signals with its original noise-suppression circuit and advanced algorithms. IR (Infrared) switches enable Analog signal —...

19200bps Material Nylon 66 Data length: 8bit G (PF) 1/2 male threads...

<u>Page 3</u> TIC-LF620E Applicable diameter - 11 to 13mm (0.433 to 0.512 inch) Vibration resistance: No resonance to the following levels of vibration: • 10 to 150Hz with acceleration of 9.8m/s • Vibration of 30Hz with 29.4 m/s in 4h in each direction will not cause any defect to unit.

Page 4: Installation

TIC-LF620E [] Installation [] Dimension Attachment LCD display I/O cable ground Excitation cable ground Plate Power supply Signal cable ground cable ground Option cable ground IR Switch Note: Cable glands are not provided for LF622F cFMus approved type. Refer to the part Cable connection port at detector. Figure 2.

<u>Page 5</u> *1 Locate an external double-pole power switch on the power line near the flowmeter within easy reach of operation. Use the appropriate switch rating as shown below: Switch rating: 250Vac, 6A or more In rush current: 15A or more Figure 3. Combined type LF620 and LF620F converters Wiring Diagram...

Page 6: Profibus-Pa

TIC-LF620E Instrument panel : Ordered separately Grounding with 100Ω or less IV wire 5.5mm or more ground resistance Power switch Grounding with 100Ω or less (External double-pole power switch) ground resistance Power supply Thick walled steel conduit Current output (4 \square 20mAdc) Signal cable or PROFIBUS (2-wire shielded hard-rubber sheathed cable)

Page 7: Wiring Precautions

An independent earth ground is recommended. (2) The allowable cable lengths between Toshiba detector and Toshiba converter for the separate type flowmeter depend on the electrical conductivity of the object fluid. Refer to each specification sheet.

<u>Page 8</u> Specifications are subject to change without notice. Printed in Japan 2011-6 (TDOC) Misuse of this product can result in damages to property or human injury. © TOSHIBA Corporation 2011 Read related manuals carefully before using this product. All Rights Reserved.

This manual is also suitable for:

Lf622Field intelligent device seriesLf620fLf622f