

Specification



TAMAR-3-DC

TAMAR-3-AC

Power Options

POWER SUPPLY - EXTERNAL ADAPTER	5V-42V DC
POWER SUPPLY - SOLAR PANEL	6V-32V, MPPT
POWER SUPPLY - LEAD-ACID BATTERY	6V, 9V, 12V
POWER SUPPLY - LITHIUM BATTERY	3.8V 12000mAh

12V-42V AC
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Environmental

OPERATION TEMPERATURE

-20°C - 65°C / -4°F - 149°F

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Size

DIMENSIONS - CASE
DIMENSIONS - PCB

247 x 177 x 66 mm
157 x 148 x 35 mm

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157 x 148 x 35 mm

I/O Capacity

VALVE OUTPUTS COUNT	16 + 24 on extension board
VALVE OUTPUT VOLTAGE	5V-24V DC
VALVE MAX OUTPUT CURRENT (Peak)	8000 mA
DIGITAL INPUTS (Dry Contact)	2
DIGITAL INPUT PULSE WIDTH (Min)	10 ms
DIGITAL INPUT FREQUENCY (Max)	50 PPS
ANALOG INPUTS	1
ANALOG INPUT TYPE	0-20mA, 4-20mA, 0-5V, 0-12V
ANALOG INPUT RESOLUTION	12 BIT

16 + 24 on extension board
12V-42V AC
8000 mA
2
10 ms
50 PPS
1
0-20mA, 4-20mA, 0-5V, 0-12V
12 BIT

Communication Options

CELLULAR MODEM	2G/3G/4G
CELLULAR ANTENNA	Internal / External
BLUETOOTH MODEM - TECHNICIAN APP	Bluetooth 5.0 Low Energy

2G/3G/4G
Internal / External
Bluetooth 5.0 Low Energy

CPU & Memory

OPTIONAL EXTENSIONS	SPI/I2C
CPU	ARM Cortex 32Bit 32MHz
FLASH MEMORY	128KB on MCU + 32MBIT SPI

SPI/I2C
ARM Cortex 32Bit 32MHz
128KB on MCU + 32MBIT SPI

Firmware Update

FIRMWARE UPDATE

USB + Over-The-Air (FOTA)

USB + Over-The-Air (FOTA)

Certifications

Safety

CE IEC 61010-1:2010 + A1:2016, EN 61010-1:2010 + A1:2019

EMC (Electromagnetic Compatibility)

EN 61326-1:2020, EN 301 489-1 V2.2.3:2019, EN 301 489-17 V3.2.4:2020, EN 301 489-50 V2.3.1:2021, EN 55035:2017+A11:2020, EN 55032:2015+A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013, FCC Part 15 (CFR 47), ANSI C63.4:2014, Industry Canada ICES-003:2020 (Issue 7)

Information Security Management

ISO/IEC 27001:2013

Cloud Security for IT Operations

ISO/IEC 27017:2015