

Modbus Register for Fisher™ ARMOR™



WARNING

Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion and/or fire causing property damage and personal injury or death.

Fisher™ equipment must be installed, operated and maintained in accordance with federal, state and local codes, rules and regulations and Emerson Process Management Regulator Technologies Inc. (Emerson) instructions.

Only personnel trained in the proper procedures, codes, standards and regulations, for the applicable industries should install and service this equipment.

Safety Messages



WARNING

Read this manual before working with the product. For personal and system safety and for optimum product performance, ensure you thoroughly understand the contents before installing, using or maintaining this product.

EXPLOSIONS

Explosions could result in death or serious injury.

In an explosion proof/flame proof installation, do not remove the device cover when power is applied to the ARMOR Series.

Installation of device in an explosive environment must be in accordance with appropriate local, national and international standards, codes and practices. Review the Product



Figure 1. Fisher ARMOR

Certifications section of this manual for any restrictions associated with a safe installation.

Before connecting a handheld communicator (smartphone or PC) in an explosive atmosphere, ensure that the instruments are installed in accordance with intrinsically safe or non-incendive field wiring practices.

ELECTRICAL SHOCK

Electrical shock can result in death or serious injury.

Avoid contact with the leads and terminals. High voltage that may be present on leads can cause electrical shock.

PHYSICAL ACCESS

Unauthorized personnel may potentially cause significant damage to and/or misconfiguration of end users' equipment. This could be intentional or unintentional and needs to be protected against.

Physical security is an important part of any security program and fundamental in protecting your system. Restrict physical access by unauthorized personnel to protect end users' assets. This is true for all systems used within the facility.

- **⚠ SAFETY ALERT SYMBOL:** This symbol is used to alert you to potential personal injury hazards. Follow all safety messages that accompany this symbol to avoid injury or loss of life.
- **⚠ DANGER:** Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

- **⚠ WARNING:** Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **⚠ CAUTION:** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Addresses practices not related to personal injury, such as property damage, equipment damage, data loss, hardware damage and/or software damage.

Introduction

This manual provides telemetry data registers, parameter registers, alarm limits registers and system information registers for the Fisher ARMOR Series.

Table 1. Telemetry Data Registers

NAME	REGISTER ADDRESS	SIGNAL DESCRIPTION	DATA TYPE
Last Sensor Scan Time Stamp (UTC format)	40001	Year (MSB - LSB)	Integer
	40002	MS Byte - Month LS Byte - Date	Integer
	40003	MS Byte - Hour LS Byte - Minutes	Integer
	40004	MS Byte - Seconds LS Byte - Sign Indication	Integer
Sensor Alarm Status	40006.0	P1 Pressure Low Alarm	Boolean
	40006.1	P1 Pressure Low Low Alarm	Boolean
	40006.2	P1 Pressure High Alarm	Boolean
	40006.3	P1 Pressure High High Alarm	Boolean
	40006.4	P2 Pressure Low Alarm	Boolean
	40006.5	P2 Pressure Low Low Alarm	Boolean
	40006.6	P2 Pressure High Alarm	Boolean
	40006.7	P2 Pressure High High Alarm	Boolean
	40006.8	P3 Pressure Low Alarm	Boolean
	40006.9	P3 Pressure Low Low Alarm	Boolean
	40006.10	P3 Pressure High Alarm	Boolean
	40006.11	P3 Pressure High High Alarm	Boolean
	40006.12	Travel Low Alarm	Boolean
	40006.13	Travel Low Low Alarm	Boolean
	40006.14	Travel High Alarm	Boolean
	40006.15	Travel High High Alarm	Boolean
Sensor Alarm Status	40007.1	Slam Shut Switch Alarm	Boolean
P1 Pressure Sensor Value (psi)	40009	P1 Pressure	Real
P2 Pressure Sensor Value (psi)	40011	P2 Pressure	Real
P3 Pressure Sensor Value (psi)	40013	P3 Pressure	Real
Travel Sensor Value (%)	40015	Travel Position	Real
Discrete Input Switch and Operational Mode status	40017	MS Byte - Discrete Input Switch Status 0 - Slam Shut Switch Open 1 - Slam Shut Switch Closed LS Byte - Operational Mode status 0 - Invalid / NA 1 - Reserved 2 - Externally Powered	Integer

Table 1. Telemetry Data Registers (continued)

NAME	REGISTER ADDRESS	SIGNAL DESCRIPTION	DATA TYPE
Tamper status and SIM status	40020	MS Byte - Sim Status 0 - Not inserted 1 - Inserted 2 - Unknown LS Byte - Tamper Status 0 - Not Tampered 1 - Tampered	Integer
BLE status	40021	MS Byte - Reserved LS Byte - BLE status 0 - Not Connected 1 - Connected	Integer

Table 2. Parameter Registers

NAME	REGISTER ADDRESS	SIGNAL DESCRIPTION	DATA TYPE	NOTES (DEFAULT BYTE AND WORD ORDER: HIGH BYTE FIRST, HIGH WORD FIRST)
Sensor Scan Rate	40051	1 Sec - 1 Day Multiple of Seconds	Integer	Sensor scan rate value combines registers 40051 and 40052
Telemetry Data Logging Interval	40053	1 Sec - 1 Day Multiple of Seconds	Integer	Sensor scan rate value combines registers 40053 and 40054
P3 Pressure Sensor	40055	P3 Pressure Sensor Reading Enable/Disable 0 - Disable 1 - Enable	Integer	----
TIS Sensor	40056	TIS Sensor Disable/Enable 0 - Disable 1 - Enable	Integer	----
P1 Pressure Sensor	40057	P1 Pressure Sensor Reading Enable/Disable 0 - Disable 1 - Enable	Integer	----
P2 Pressure Sensor	40058	P2 Pressure Sensor Reading Enable / Disable 0 - Disable 1 - Enable	Integer	----
Unit of Pressure	40059	Unit of Pressure 0 - Psi Gauge	Integer	----
P1 Pressure Sensor Range / Model	40060	P1 Pressure Sensor Range / Model	Integer	0 – No model selected 1 – Reserved 2 – 0 to 30 psig / 0 to 2.1 bar 3 – 0 to 100 psig / 0 to 6.9 bar 4 – Reserved 5 – Reserved 6 – 0 to 500 psig / 0 to 34.5 bar 7 – Reserved 8 – 0 to 1500 psig / 0 to 103 bar
P2 Pressure Sensor Range / Model	40061	P2 Pressure Sensor Range / Model	Integer	
P3 Pressure Sensor Range / Model	40062	P3 Pressure Sensor Range / Model	Integer	
TIS Sensor Position Config	40063	TIS Sensor Installation Configuration 0 - Normal 1 - Reversed	Integer	----
Slam Shut Switch Configuration	40064	Slam Shut Switch Configuration 0 - Invalid / NA 1 - Normally Closed 2 - Normally Open	Integer	----
Slam Shut Switch Monitoring Configuration	40065	Slam Shut Switch Monitoring Configuration 0 - Invalid / NA 1 - Raise Alarm 2 - Only Monitor (No alarm)	Integer	----
Modbus Register Data Order	40066	Modbus Register Byte Order and Word Order Configuration 0 - High byte first, High word first 1 - High byte first, Low word first 2 - Low byte first, High word first 3 - Low byte first, Low word first	Integer	----

Table 3. Alarm Limits Registers

NAME	REGISTER ADDRESS	SIGNAL DESCRIPTION	DATA TYPE
P1 Pressure Low Alarm Limit	40101	P1 Pressure Low Alarm limit value in psi	Real
P1 Pressure Low Low Alarm Limit	40103	P1 Pressure Low Low Alarm limit value in psi	Real
P1 Pressure High Alarm Limit	40105	P1 Pressure High Alarm limit value in psi	Real
P1 Pressure High High Alarm Limit	40107	P1 Pressure High High Alarm limit value in psi	Real
P2 Pressure Low Alarm Limit	40109	P2 Pressure Low Alarm limit value in psi	Real
P2 Pressure Low Low Alarm Limit	40111	P2 Pressure Low Low Alarm limit value in psi	Real
P2 Pressure High Alarm Limit	40113	P2 Pressure High Alarm limit value in psi	Real
P2 Pressure High High Alarm Limit	40115	P2 Pressure High High Alarm limit value in psi	Real
P3 Pressure Low Alarm Limit	40117	P3 Pressure Low Alarm limit value in psi	Real
P3 Pressure Low Low Alarm Limit	40119	P3 Pressure Low Low Alarm limit value in psi	Real
P3 Pressure High Alarm Limit	40121	P3 Pressure High Alarm limit value in psi	Real
P3 Pressure High High Alarm Limit	40123	P3 Pressure High High Alarm limit value in psi	Real
Travel Position Low Alarm Limit	40125	Travel Position Low Alarm limit in percentages	Real
Travel Position Low Low Alarm Limit	40127	Travel Position Low Low Alarm limit in percentages	Real
Travel Position High Alarm Limit	40129	Travel Position High Alarm limit in percentages	Real
Travel Position High High Alarm Limit	40131	Travel Position High High Alarm limit in percentages	Real

Table 4. System Information Registers

NAME	REGISTER ADDRESS	SIGNAL DESCRIPTION	DATA TYPE	NOTES (DEFAULT BYTE AND WORD ORDER: HIGH BYTE FIRST, HIGH WORD FIRST)
ULP Firmware Version	40221	ULP Firmware Version Alphanumeric e.g. v2.11	String	ULP Firmware version is from register 40221 to 40224 (4 registers)
MPU Firmware Version	40225	MPU Firmware Version Numeric e.g. 2.0	String	MPU Firmware version is from register 40225 to 40228 (4 registers)
BLE Firmware Version	40229	BLE Firmware Version Numeric e.g. 261	String	BLE Firmware version is from register 40229 to 40232 (4 registers)
Hardware Version	40233	Hardware Version	String	Hardware version is from register 40233 to 40236 (4 registers) Not supported as of now
Serial Number	40237	Serial Number Alphanumeric ASCII Representation Example: ARMOR54321	String	Serial Number is from register 40237 to 40252 (16 registers)
Model Number	40253	Model Number 0: Represented for 8000	Integer	---
Manufacturing Day Month	40254	Manufacturing Day and Month MSB: Day LSB: Month	Integer	---
Manufacturing Year	40255	Manufacturing Year	Integer	---

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