

# **Type AirLINE8640**

Modbus TCP

Function Description

# Inhalt

- 1 Overview.....3
- 2 Objects.....4
  - 2.1 Cyclic data.....4
  - 2.2 Configuration data / Device parameter .....6

# 1 Overview

Used datatypes:

Unsigned8	8 bit: unsigned integer
Unsigned16	16 bit: unsigned integer
Unsigned32	32 bit: unsigned integer
REAL32	32 bit: float value IEEE 754

## 2 Objects

### 2.1 Cyclic data

Parameter	Description	Data type	Function code	Address
Valve Byte 1...3	Output 1...3: Outputs 1.-3.Byte of main island. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	1-24
Valve Byte 1...3	Output 1...3: Outputs 1.-3.Byte of main island. Word access (only 1 Byte valid)	Unsigned8	06	1-3
Valve Byte 4...6	Output 4...6: Outputs 1.-3.Byte of RIO node 1. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	25-48
Valve Byte 4...6	Output 4...6: Outputs 1.-3.Byte of RIO node 1. Word access (only 1 Byte valid)	Unsigned8	06	4-6
Valve Byte 7...9	Output 7...9: Outputs 1.-3.Byte of RIO node 2. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	49-72
Valve Byte 7...9	Output 7...9: Outputs 1.-3.Byte of RIO node 2. Word access (only 1 Byte valid)	Unsigned8	06	7-9
Valve Byte 10...12	Output 10...12: Outputs 1.-3.Byte of RIO node 3. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	73-96
Valve Byte 10...12	Output 10...12: Outputs 1.-3.Byte of RIO node 3. Word access (only 1 Byte valid)	Unsigned8	06	10-12
Valve Byte 13...15	Output 13...15: Outputs 1.-3.Byte of RIO node 4. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	97-120
Valve Byte 13...15	Output 13...15: Outputs 1.-3.Byte of RIO node 4. Word access (only 1 Byte valid)	Unsigned8	06	13-15
Valve Byte 16...18	Output 16...18: Outputs 1.-3.Byte of RIO node 5. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	121-144
Valve Byte 16...18	Output 16...18: Outputs 1.-3.Byte of RIO node 5. Word access (only 1 Byte valid)	Unsigned8	06	16-18
Valve Byte 19...21	Output 19...21: Outputs 1.-3.Byte of RIO node 6. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	145-168
Valve Byte 19...21	Output 19...21: Outputs 1.-3.Byte of RIO node 6. Word access (only 1 Byte valid)	Unsigned8	06	19-21
Valve Byte 22...24	Output 22...24: Outputs 1.-3.Byte of RIO node 7. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	169-192
Valve Byte 22...24	Output 22...24: Outputs 1.-3.Byte of RIO node 7. Word access (only 1 Byte valid)	Unsigned8	06	22-24
Valve Byte 25...27	Output 25...27: Outputs 1.-3.Byte of RIO node 8. Bit access 1.-24. Bit.	Unsigned8 (bit access)	15	193-216
Valve Byte 25...27	Output 25...27: Outputs 1.-3.Byte of RIO node 8. Word access (only 1 Byte valid)	Unsigned8	06	25-27

Parameter	Description	Data type	Function code	Address
Input Byte 1...4	Input 1...4: Inputs 1.-4.Byte of main island. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	257-288
Input Byte 1...4	Input 1...4: Inputs 1.-4.Byte of main island. Word access (only 1 Byte valid)	Unsigned8	03	257-260
Input Byte 5...8	Input 5...8: Inputs 1.-4.Byte of RIO node 1. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	289-320
Input Byte 5...8	Input 5...8: Inputs 1.-4.Byte of RIO node 1. Word access (only 1 Byte valid)	Unsigned8	03	261-264
Input Byte 9...12	Input 9...12: Inputs 1.-4.Byte of RIO node 2. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	321-352
Input Byte 9...12	Input 9...12: Inputs 1.-4.Byte of RIO node 2. Word access (only 1 Byte valid)	Unsigned8	03	265-268
Input Byte 13...16	Input 13...16: Inputs 1.-4.Byte of RIO node 3. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	353-384
Input Byte 13...16	Input 13...16: Inputs 1.-4.Byte of RIO node 3. Word access (only 1 Byte valid)	Unsigned8	03	269-272
Input Byte 17...20	Input 17...20: Inputs 1.-4.Byte of RIO node 4. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	385-416
Input Byte 17...20	Input 17...20: Inputs 1.-4.Byte of RIO node 4. Word access (only 1 Byte valid)	Unsigned8	03	273-276
Input Byte 21...24	Input 21...24: Inputs 1.-4.Byte of RIO node 5. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	417-448
Input Byte 21...24	Input 21...24: Inputs 1.-4.Byte of RIO node 5. Word access (only 1 Byte valid)	Unsigned8	03	277-280
Input Byte 25...28	Input 25...28: Inputs 1.-4.Byte of RIO node 6. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	449-480
Input Byte 25...28	Input 25...28: Inputs 1.-4.Byte of RIO node 6. Word access (only 1 Byte valid)	Unsigned8	03	281-284
Input Byte 29...32	Input 29...32: Inputs 1.-4.Byte of RIO node 7. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	481-512
Input Byte 29...32	Input 29...32: Inputs 1.-4.Byte of RIO node 7. Word access (only 1 Byte valid)	Unsigned8	03	285-288
Input Byte 33...36	Input 33...36: Inputs 1.-4.Byte of RIO node 8. Bit access 1.-32. Bit.	Unsigned8 (bit access)	01, 02	513-544
Input Byte 33...36	Input 33...36: Inputs 1.-4.Byte of RIO node 8. Word access (only 1 Byte valid)	Unsigned8	03	289-292

## 2.2 Configuration data / Device parameter

Parameter	Description	Data type	Function code	Address
Fault Action Byte 1..27 (main island: byte 1...3, RIO node 1: byte 4..6, ... RIO node 8: byte 25...27)	Behavior of output byte 1...27 if device is offline 0: use fault value of corresponding digital valve output 1: hold last state  1 output byte represents 8 digital valve outputs  Word access (only 1 Byte valid)	Unsigned8	03,06	513-539
Fault Value Byte 1..27 (main island: byte 1...3, RIO node 1: byte 4..6, ... RIO node 8: byte 25...27)	Fault value for output byte 1..27 0: digital valve output is not set 1: digital valve output is set  1 output byte represents 8 digital valve outputs  Word access (only 1 Byte valid)	Unsigned8	03,06	769-795
Factory ID	Buerkert identnumber	Unsigned32	03,06,16	1025
Factory Serial	Buerkert serialnumber	Unsigned32	03,06,16	1028
Input Mode	0: no inputs 1: normal 2: shifted 3: halved Word access (only 1 Byte valid)	Unsigned8	03,06,16	1030
Input Filter	0: filter off 1: filter on Word access (only 1 Byte valid)	Unsigned8	03,06,16	1031