

airleader

Kompressoren Management

Modbus Interface Kurzdokumentation Stand 05/201008



Modbus Interface Kurzbeschreibung

Das Airleader-Modbus Interface dient zur Bereitstellung der Airleader Daten als Modbus Schnittstelle.

Dabei sind 2 Betriebsarten vorgesehen:

1. Modbus TCP
2. Modbus seriell ASCII

Installation:

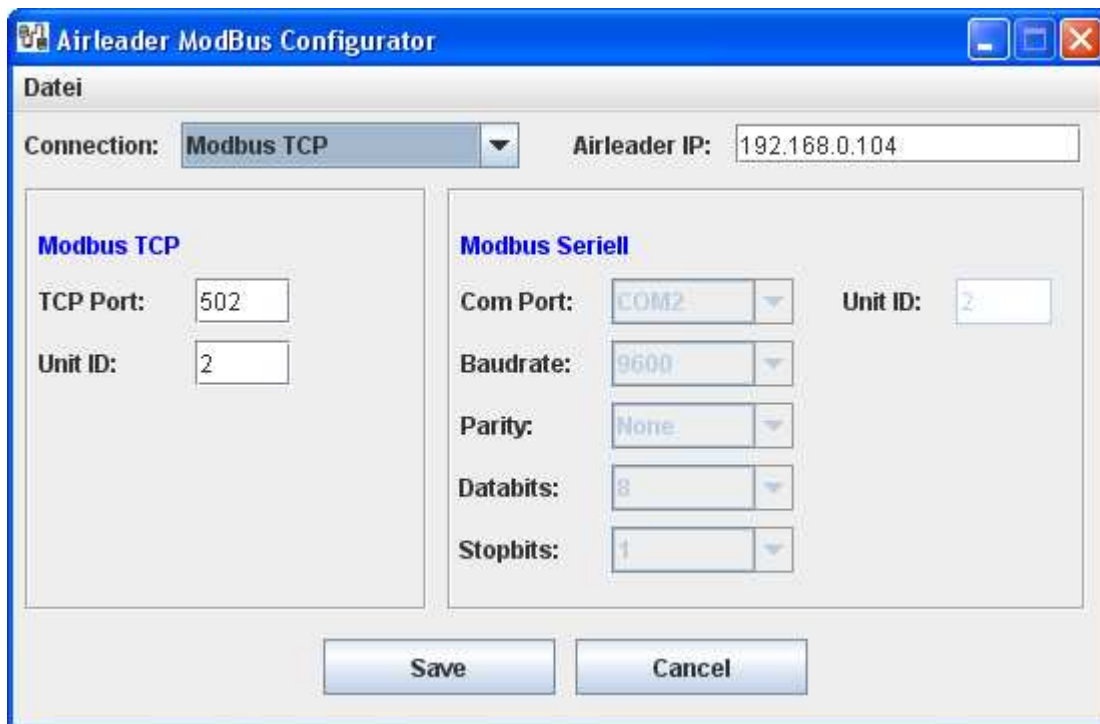
Führen Sie das Programm Airleader-Modbus-Interface-?????.exe aus.

Folgen Sie den Anweisungen und installieren Sie die Anwendung.

Am Ende der Installation startet der Konfigurator.

Hier können Betriebsmodi, Schnittstellen Einstellungen und Steuerungs IP-Adresse festgelegt werden. Das Modbus Interface fungiert immer als Slave (Server).

Betriebsmodus Modbus TCP:



The screenshot shows the 'Airleader ModBus Configurator' window. At the top, the title bar reads 'Airleader ModBus Configurator'. Below the title bar, there is a 'Datei' section. Under 'Datei', the 'Connection:' dropdown menu is set to 'Modbus TCP', and the 'Airleader IP:' text box contains '192.168.0.104'. The main configuration area is divided into two panels: 'Modbus TCP' on the left and 'Modbus Seriell' on the right. In the 'Modbus TCP' panel, the 'TCP Port:' text box contains '502' and the 'Unit ID:' text box contains '2'. In the 'Modbus Seriell' panel, the 'Com Port:' dropdown menu is set to 'COM2', the 'Unit ID:' text box contains '2', the 'Baudrate:' dropdown menu is set to '9600', the 'Parity:' dropdown menu is set to 'None', the 'Databits:' dropdown menu is set to '8', and the 'Stopbits:' dropdown menu is set to '1'. At the bottom of the window, there are two buttons: 'Save' and 'Cancel'.

Hier werden lediglich der TCP-Port (Modbus Standard = 502), sowie die IP Adresse der Steuerung festgelegt. Die Angabe für die Unit ID ist hier obsolet, da die Slave Adresse durch die IP definiert ist.

Durch Klick auf „Save“ werden die aktuellen Einstellungen gespeichert, und der Dienst aktualisiert.

Betriebsart Modbus seriell ASCII:

The screenshot shows the 'Airleader ModBus Configurator' window. At the top, the title bar reads 'Airleader ModBus Configurator'. Below the title bar, there is a 'Datei' menu. The main area is divided into two sections: 'Modbus TCP' and 'Modbus Seriell'. The 'Connection' dropdown is set to 'Modbus seriell (ASCII)'. The 'Airleader IP' field contains '192.168.0.104'. In the 'Modbus TCP' section, the 'TCP Port' is '502' and the 'Unit ID' is '2'. In the 'Modbus Seriell' section, the 'Com Port' is 'COM2', 'Baudrate' is '9600', 'Parity' is 'None', 'Databits' is '8', and 'Stopbits' is '1'. The 'Unit ID' field is also present in this section and contains '2'. At the bottom, there are 'Save' and 'Cancel' buttons.

Hier werden die Parameter für die COM Schnittstelle festgelegt, sowie die IP Adresse der Steuerung. Hier ist die Definition der Unit ID zwingend, da sich der Modbus Slave hier den Bus mit anderen Modulen teilt, und diese ID der eindeutigen Identifizierung dient. Durch Klick auf „Save“ werden die aktuellen Einstellungen gespeichert, und der Dienst aktualisiert.

Modbus Adressliste:

Input Register

Modbus address	Type	Register no	Control	Mode
30001	Input register	1	Consumption	Read only
30002		2		
30003	Input register	3	Net pressure	Read only
30004		4		
30005	Input register	5	Master AE2	Read only
30006		6		
30007	Input register	7	Master AE3	Read only
30008		8		
30009	Input register	9	Master AE4	Read only
30010		10		
30011	Input register	11	Modul 1 AE1	Read only
30012		12		
30013	Input register	13	Modul 1 AE2	Read only
30014		14		
30015	Input register	15	Modul 2 AE1	Read only
30016		16		
30017	Input register	17	Modul 2 AE2	Read only
30018		18		
30019	Input register	19	Modul 3 AE1	Read only
30020		20		
30021	Input register	21	Modul 3 AE2	Read only
30022		22		
30023	Input register	23	Modul 4 AE1	Read only
30024		24		
30025	Input register	25	Modul 4 AE2	Read only
30026		26		
30027	Input register	27	Modul 5 AE1	Read only
30028		28		
30029	Input register	29	Modul 5 AE2	Read only
30030		30		
30031	Input register	31	Modul 6 AE1	Read only
30032		32		
30033	Input register	33	Modul 6 AE2	Read only
30034		34		
30035	Input register	35	Modul 7 AE1	Read only
30036		36		
30037	Input register	37	Modul 7 AE2	Read only
30038		38		
30039	Input register	39	Modul 8 AE1	Read only
30040		40		
30041	Input register	41	Modul 8 AE2	Read only
30042		42		
30043	Input register	43	Modul 9 AE1	Read only
30044		44		
30045	Input register	45	Modul 9 AE2	Read only
30046		46		
30047	Input register	47	Modul 10 AE1	Read only
30048		48		
30049	Input register	49	Modul 10 AE2	Read only
30050		50		

30051	Input register	51	Modul 11 AE1	Read only
30052		52		
30053	Input register	53	Modul 11 AE2	Read only
30054		54		
30055	Input register	55	Modul 12 AE1	Read only
30056		56		
30057	Input register	57	Modul 12 AE2	Read only
30058		58		
30059	Input register	59	Modul 13 AE1	Read only
30060		60		
30061	Input register	61	Modul 13 AE2	Read only
30062		62		
30063	Input register	63	Modul 14 AE1	Read only
30064		64		
30065	Input register	65	Modul 14 AE2	Read only
30066		66		
30067	Input register	67	Modul 15 AE1	Read only
30068		68		
30069	Input register	69	Modul 15 AE2	Read only
30070		70		
30071	Input register	71	Modul 16 AE1	Read only
30072		72		
30073	Input register	73	Modul 16 AE2	Read only
30074		74		
30075	Input register	75	Modul 17 AE1	Read only
30076		76		
30077	Input register	77	Modul 17 AE2	Read only
30078		78		
30079	Input register	79	Modul 18 AE1	Read only
30080		80		
30081	Input register	81	Modul 18 AE2	Read only
30082		82		
30083	Input register	83	Modul 19 AE1	Read only
30084		84		
30085	Input register	85	Modul 19 AE2	Read only
30086		86		
30087	Input register	87	Modul 20 AE1	Read only
30088		88		
30089	Input register	89	Modul 20 AE2	Read only
30090		90		
30091	Input register	91	Modul 21 AE1	Read only
30092		92		
30093	Input register	93	Modul 21 AE2	Read only
30094		94		
30095	Input register	95	Modul 22 AE1	Read only
30096		96		
30097	Input register	97	Modul 22 AE2	Read only
30098		98		
30099	Input register	99	Modul 23 AE1	Read only
30100		100		
30101	Input register	101	Modul 23 AE2	Read only
30102		102		
30103	Input register	103	Modul 24 AE1	Read only
30104		104		
30105	Input register	105	Modul 24 AE2	Read only
30106		106		

For Airleader CN continue until Modul 64
 All values as IEEE 32bit floating point

Discrete Inputs:

Modbus adress	Type	Register no	Control	Mode
10001	Discret input	1	Modul 1 Störung	Read only
10002	Discret input	2	Modul 1 Motorlauf	Read only
10003	Discret input	3	Modul 1 Bereit	Read only
10004	Discret input	4	Modul 1 Lastlauf	Read only
10005	Discret input	5	Modul 1 Error	Read only
10006	Discret input	6	Modul 1 R1	Read only
10007	Discret input	7	Modul 1 R2	Read only
10008	Discret input	8	Modul 2 Störung	Read only
10009	Discret input	9	Modul 2 Motorlauf	Read only
10010	Discret input	10	Modul 2 Bereit	Read only
10011	Discret input	11	Modul 2 Lastlauf	Read only
10012	Discret input	12	Modul 2 Error	Read only
10013	Discret input	13	Modul 2 R1	Read only
10014	Discret input	14	Modul 2 R2	Read only
10015	Discret input	15	Modul 3 Störung	Read only
10016	Discret input	16	Modul 3 Motorlauf	Read only
10017	Discret input	17	Modul 3 Bereit	Read only
10018	Discret input	18	Modul 3 Lastlauf	Read only
10019	Discret input	19	Modul 3 Error	Read only
10020	Discret input	20	Modul 3 R1	Read only
10021	Discret input	21	Modul 3 R2	Read only
10022	Discret input	22	Modul 4 Störung	Read only
10023	Discret input	23	Modul 4 Motorlauf	Read only
10024	Discret input	24	Modul 4 Bereit	Read only
10025	Discret input	25	Modul 4 Lastlauf	Read only
10026	Discret input	26	Modul 4 Error	Read only
10027	Discret input	27	Modul 4 R1	Read only
10028	Discret input	28	Modul 4 R2	Read only
10029	Discret input	29	Modul 5 Störung	Read only
10030	Discret input	30	Modul 5 Motorlauf	Read only
10031	Discret input	31	Modul 5 Bereit	Read only
10032	Discret input	32	Modul 5 Lastlauf	Read only
10033	Discret input	33	Modul 5 Error	Read only
10034	Discret input	34	Modul 5 R1	Read only
10035	Discret input	35	Modul 5 R2	Read only
10036	Discret input	36	Modul 6 Störung	Read only
10037	Discret input	37	Modul 6 Motorlauf	Read only
10038	Discret input	38	Modul 6 Bereit	Read only
10039	Discret input	39	Modul 6 Lastlauf	Read only
10040	Discret input	40	Modul 6 Error	Read only
10041	Discret input	41	Modul 6 R1	Read only
10042	Discret input	42	Modul 6 R2	Read only
10043	Discret input	43	Modul 7 Störung	Read only
10044	Discret input	44	Modul 7 Motorlauf	Read only
10045	Discret input	45	Modul 7 Bereit	Read only
10046	Discret input	46	Modul 7 Lastlauf	Read only

10047	Discret input	47	Modul 7 Error	Read only
10048	Discret input	48	Modul 7 R1	Read only
10049	Discret input	49	Modul 7 R2	Read only
10050	Discret input	50	Modul 8 Störung	Read only
10051	Discret input	51	Modul 8 Motorlauf	Read only
10052	Discret input	52	Modul 8 Bereit	Read only
10053	Discret input	53	Modul 8 Lastlauf	Read only
10054	Discret input	54	Modul 8 Error	Read only
10055	Discret input	55	Modul 8 R1	Read only
10056	Discret input	56	Modul 8 R2	Read only
10057	Discret input	57	Modul 9 Störung	Read only
10058	Discret input	58	Modul 9 Motorlauf	Read only
10059	Discret input	59	Modul 9 Bereit	Read only
10060	Discret input	60	Modul 9 Lastlauf	Read only
10061	Discret input	61	Modul 9 Error	Read only
10062	Discret input	62	Modul 9 R1	Read only
10063	Discret input	63	Modul 9 R2	Read only
10064	Discret input	64	Modul 10 Störung	Read only
10065	Discret input	65	Modul 10 Motorlauf	Read only
10066	Discret input	66	Modul 10 Bereit	Read only
10067	Discret input	67	Modul 10 Lastlauf	Read only
10068	Discret input	68	Modul 10 Error	Read only
10069	Discret input	69	Modul 10 R1	Read only
10070	Discret input	70	Modul 10 R2	Read only
10071	Discret input	71	Modul 11 Störung	Read only
10072	Discret input	72	Modul 11 Motorlauf	Read only
10073	Discret input	73	Modul 11 Bereit	Read only
10074	Discret input	74	Modul 11 Lastlauf	Read only
10075	Discret input	75	Modul 11 Error	Read only
10076	Discret input	76	Modul 11 R1	Read only
10077	Discret input	77	Modul 11 R2	Read only
10078	Discret input	78	Modul 12 Störung	Read only
10079	Discret input	79	Modul 12 Motorlauf	Read only
10080	Discret input	80	Modul 12 Bereit	Read only
10081	Discret input	81	Modul 12 Lastlauf	Read only
10082	Discret input	82	Modul 12 Error	Read only
10083	Discret input	83	Modul 12 R1	Read only
10084	Discret input	84	Modul 12 R2	Read only
10085	Discret input	85	Modul 13 Störung	Read only
10086	Discret input	86	Modul 13 Motorlauf	Read only
10087	Discret input	87	Modul 13 Bereit	Read only
10088	Discret input	88	Modul 13 Lastlauf	Read only
10089	Discret input	89	Modul 13 Error	Read only
10090	Discret input	90	Modul 13 R1	Read only
10091	Discret input	91	Modul 13 R2	Read only
10092	Discret input	92	Modul 14 Störung	Read only
10093	Discret input	93	Modul 14 Motorlauf	Read only
10094	Discret input	94	Modul 14 Bereit	Read only
10095	Discret input	95	Modul 14 Lastlauf	Read only
10096	Discret input	96	Modul 14 Error	Read only
10097	Discret input	97	Modul 14 R1	Read only
10098	Discret input	98	Modul 14 R2	Read only
10099	Discret input	99	Modul 15 Störung	Read only
10100	Discret input	100	Modul 15 Motorlauf	Read only

10101	Discret input	101	Modul 15 Bereit	Read only
10102	Discret input	102	Modul 15 Lastlauf	Read only
10103	Discret input	103	Modul 15 Error	Read only
10104	Discret input	104	Modul 15 R1	Read only
10105	Discret input	105	Modul 15 R2	Read only
10106	Discret input	106	Modul 16 Störung	Read only
10107	Discret input	107	Modul 16 Motorlauf	Read only
10108	Discret input	108	Modul 16 Bereit	Read only
10109	Discret input	109	Modul 16 Lastlauf	Read only
10110	Discret input	110	Modul 16 Error	Read only
10111	Discret input	111	Modul 16 R1	Read only
10112	Discret input	112	Modul 16 R2	Read only
10113	Discret input	113	Modul 17 S	Read only
10114	Discret input	114	Modul 17 M	Read only
10115	Discret input	115	Modul 17 B	Read only
10116	Discret input	116	Modul 17 L	Read only
10117	Discret input	117	Modul 17 Error	Read only
10118	Discret input	118	Modul 17 R1	Read only
10119	Discret input	119	Modul 17 R2	Read only
10120	Discret input	120	Modul 18 S	Read only
10121	Discret input	121	Modul 18 M	Read only
10122	Discret input	122	Modul 18 B	Read only
10123	Discret input	123	Modul 18 L	Read only
10124	Discret input	124	Modul 18 Error	Read only
10125	Discret input	125	Modul 18 R1	Read only
10126	Discret input	126	Modul 18 R2	Read only
10127	Discret input	127	Modul 19 S	Read only
10128	Discret input	128	Modul 19 M	Read only
10129	Discret input	129	Modul 19 B	Read only
10130	Discret input	130	Modul 19 L	Read only
10131	Discret input	131	Modul 19 Error	Read only
10132	Discret input	132	Modul 19 R1	Read only
10133	Discret input	133	Modul 19 R2	Read only
10134	Discret input	134	Modul 20 S	Read only
10135	Discret input	135	Modul 20 M	Read only
10136	Discret input	136	Modul 20 B	Read only
10137	Discret input	137	Modul 20 L	Read only
10138	Discret input	138	Modul 20 Error	Read only
10139	Discret input	139	Modul 20 R1	Read only
10140	Discret input	140	Modul 20 R2	Read only
10141	Discret input	141	Modul 21 S	Read only
10142	Discret input	142	Modul 21 M	Read only
10143	Discret input	143	Modul 21 B	Read only
10144	Discret input	144	Modul 21 L	Read only
10145	Discret input	145	Modul 21 Error	Read only
10146	Discret input	146	Modul 21 R1	Read only
10147	Discret input	147	Modul 21 R2	Read only
10148	Discret input	148	Modul 22 S	Read only
10149	Discret input	149	Modul 22 M	Read only
10150	Discret input	150	Modul 22 B	Read only
10151	Discret input	151	Modul 22 L	Read only
10152	Discret input	152	Modul 22 Error	Read only
10153	Discret input	153	Modul 22 R1	Read only
10154	Discret input	154	Modul 22 R2	Read only

10155	Discret input	155	Modul 23 S	Read only
10156	Discret input	156	Modul 23 M	Read only
10157	Discret input	157	Modul 23 B	Read only
10158	Discret input	158	Modul 23 L	Read only
10159	Discret input	159	Modul 23 Error	Read only
10160	Discret input	160	Modul 23 R1	Read only
10161	Discret input	161	Modul 23 R2	Read only
10162	Discret input	162	Modul 24 S	Read only
10163	Discret input	163	Modul 24 M	Read only
10164	Discret input	164	Modul 24 B	Read only
10165	Discret input	165	Modul 24 L	Read only
10166	Discret input	166	Modul 24 Error	Read only
10167	Discret input	167	Modul 24 R1	Read only
10168	Discret input	168	Modul 24 R2	Read only

For Airleader CN continue until Modul 64