








OWNER 	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	Modbus list for reciprocating compressor								
MC :   شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-56	BU	20	VD	303	IN	LST	0057	Rev.: 00	Page 1 of 6

Prerequisite document such as I/O list shall be issued.
This doc to be updated based on comments on index and also as per project PID (for interface signals between PLC and main system)

Modbus list for reciprocating compressor

 شرکت پتروشیمی اوشهر	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	May /01/2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

00	16/04/2021	For approval	TJ	KP	JR	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
						Class: 1 Phase: P



**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

Modbus list for reciprocating compressor



Owner Document Number: 17811-56	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
	BU	20	VD	303	IN	LST	0057	Rev.: 00	Page 2 of 5

TABULATION OF REVISED PAGES

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(17811-56)- Modbus List



NO.	AIRPACK TAG NUMBER	SERVICE	HOLDING REGISTER	BIT NO.	SIGNAL TYPE	FUNCTION CODE	UNIT	SCALE		ALARM VALUE(S)	TRIP VALUE(S)	RAW LOW COUNT	RAW HIGH COUNT	ALARM / TRIP TYPE	STATE 0	STATE 1	REMARKS
								0%	100%								
1	XA-101	PLC condition healthy	40001	0	BOOL	3	-	-	-	-	-	-	-	-	Unhealthy	Healthy	-
2	XA-102	Common Alarm	40001	1	BOOL	3	-	-	-	-	-	-	-	-	-	Alarm	-
3	XA-103	Common Trip	40001	2	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
4	XA-104	Compressor Operational	40001	3	BOOL	3	-	-	-	-	-	-	-	-	Stopped	Running	-
5	XA-105	Compressor Running	40001	4	BOOL	3	-	-	-	-	-	-	-	-	Stopped	Running	-
6	-	Spare	40001	5	BOOL	3	-	-	-	-	-	-	-	-	Remote	Local	-
7	-	Spare	40001	6	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
8	-	Spare	40001	7	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
9	-	Spare	40001	8	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
10	-	Spare	40001	9	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
11	-	Spare	40001	10	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
12	-	Spare	40001	11	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
13	-	Spare	40001	12	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
14	-	Spare	40001	13	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
15	-	Spare	40001	14	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
16	-	Spare	40001	15	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
17	XS-201	Accept alarms / trips (from DCS)	40002	0	BOOL	6	-	-	-	-	-	-	-	-	-	Accept	-
18	XS-202	Reset alarms / trips (from DCS)	40002	1	BOOL	6	-	-	-	-	-	-	-	-	-	Reset	-
19	XS-203	Start Compressor (from DCS)	40002	2	BOOL	6	-	-	-	-	-	-	-	-	-	Start	-
20	XS-204	Stop Compressor (from DCS)	40002	3	BOOL	6	-	-	-	-	-	-	-	-	-	Stop	-
21	-	Spare	40002	4	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
22	-	Spare	40002	5	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
23	-	Spare	40002	6	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
24	-	Spare	40002	7	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
25	-	Spare	40002	8	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
26	-	Spare	40002	9	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
27	-	Spare	40002	10	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
28	-	Spare	40002	11	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
29	-	Spare	40002	12	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
30	-	Spare	40002	13	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
31	-	Spare	40002	14	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
32	-	Spare	40002	15	BOOL	6	-	-	-	-	-	-	-	-	-	-	-
33	XA-301	Emergency shutdown relay	40003	0	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
34	XA-302	Main motor fault	40003	1	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
35	XA-303	PID controller alarm	40003	2	BOOL	3	-	-	-	-	-	-	-	-	-	Alarm	-
36	-	Spare	40003	3	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
37	-	Spare	40003	4	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
38	-	Spare	40003	5	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
39	-	Spare	40003	6	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
40	-	Spare	40003	7	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
41	-	Spare	40003	8	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
42	-	Spare	40003	9	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
43	-	Spare	40003	10	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
44	-	Spare	40003	11	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
45	-	Spare	40003	12	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
46	-	Spare	40003	13	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
47	-	Spare	40003	14	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
48	-	Spare	40003	15	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
49	TAH-10001	TIT-10001 High Alarm	40004	0	BOOL	3	-	-	-	-	-	-	-	-	-	Alarm	-
50	TAHH-10002	TIT-10002 High Trip	40004	1	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
51	PALL-10003	PIT-10003 Low Trip	40004	2	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
52	PAHH-10003	PIT-10003 High Trip	40004	3	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
53	PALL-10004	PIT-10004 Low Trip	40004	4	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
54	PALL-10007	PIT-10007 Low Trip	40004	5	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
55	PAHH-10007	PIT-10007 High Trip	40004	6	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
56	VAHH-10001	VT-10001 High Trip	40004	7	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-
57	FAL-10001	FT-10001 Low Alarm	40004	8	BOOL	3	-	-	-	-	-	-	-	-	-	Alarm	-
58	-	Spare	40004	9	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
59	-	Spare	40004	10	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
60	-	Spare	40004	11	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
61	-	Spare	40004	12	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
62	-	Spare	40004	13	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
63	-	Spare	40004	14	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
64	-	Spare	40004	15	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
65	XY-10001	Compressor inlet solenoid valve	40010	0	BOOL	3	-	-	-	-	-	-	-	-	Close	Open	-
66	XY-10002	Compressor cooling water inlet solenoid valve	40010	1	BOOL	3	-	-	-	-	-	-	-	-	Close	Open	-
67	-	Spare	40010	2	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
68	-	Spare	40010	3	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
69	19K4	Compressor main motor start	40010	4	BOOL	3	-	-	-	-	-	-	-	-	-	Start	-
70	19K6	Compressor main motor stop	40010	5	BOOL	3	-	-	-	-	-	-	-	-	-	Stop	-
71	19K12	Compressor PID control active	40010	6	BOOL	3	-	-	-	-	-	-	-	-	Deactivate	Activate	-
72	-	Spare	40010	7	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
73	-	Spare	40010	8	BOOL	3	-	-	-	-	-	-	-	-	-	-	-

(17811-56)- Modbus List



NO.	AIRPACK TAG NUMBER	SERVICE	HOLDING REGISTER	BIT NO.	SIGNAL TYPE	FUNCTION CODE	UNIT	SCALE		ALARM VALUE(S)	TRIP VALUE(S)	RAW LOW COUNT	RAW HIGH COUNT	ALARM / TRIP TYPE	STATE 0	STATE 1	REMARKS
								0%	100%								
74	-	Spare	40010	9	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
75	-	Spare	40010	10	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
76	-	Spare	40010	11	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
77	-	Spare	40010	12	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
78	-	Spare	40010	13	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
79	-	Spare	40010	14	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
80	-	Spare	40010	15	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
81	TIT-10001	Compressor Inlet Nitrogen Temperature	40020	-	32Bit-floating	3	°C	0	80	L: 56	-	0	80	HIGH	-	-	-
82	TIT-10002	Compressor Downstream Nitrogen Temperature	40022	-	32Bit-floating	3	°C	0	200	-	HH: 195	0	200	HIGH	-	-	-
83	PIT-10003	Compressor Inlet Pressure	40024	-	32Bit-floating	3	°C	-1	13,5	-	LL: 6,9 HH: 9,1	-1	13,5	OW & HIGH	-	-	-
84	PIT-10004	Compressor Oil Pressure	40026	-	32Bit-floating	3	bar(a)	-1	5	-	LL: 1,5	-1	5	LOW	-	-	-
85	PIT-10007	Compressor Outlet Pressure	40040	-	32Bit-floating	3	bar(a)	0	36	-	LL: 21 HH: 23,5	0	36	OW & HIGH	-	-	-
86	VT-10001	Compressor Vibration Transmitter	40042	-	32Bit-floating	3	mm/s	0	??	-	HH: 8	0	??	HIGH	-	-	-
87	FT-10001	Cooling Water Outlet Flow	40044	-	32Bit-floating	3	m3/hr	0	??	-	LL: 2,3	0	??	LOW	-	-	-
88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(17811-56)- Modbus List



NO.	AIRPACK TAG NUMBER	SERVICE	HOLDING REGISTER	BIT NO.	SIGNAL TYPE	FUNCTION CODE	UNIT	SCALE		ALARM VALUE(S)	TRIP VALUE(S)	RAW LOW COUNT	RAW HIGH COUNT	ALARM / TRIP TYPE	STATE 0	STATE 1	REMARKS		
								0%	100%										
1	XA-101	PLC condition healthy	40001	0	BOOL	3	-	-	-	-	-	-	-	-	Unhealthy	Healthy	-		
2	XA-102	Common Alarm	40001	1	BOOL	3	-	-	-	-	-	-	-	-	-	Alarm	-	-	
3	XA-103	Common Trip	40001	2	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
4	XA-104	Compressor Operational	40001	3	BOOL	3	-	-	-	-	-	-	-	-	Stopped	Running	-		
5	XA-105	Compressor Running	40001	4	BOOL	3	-	-	-	-	-	-	-	-	Stopped	Running	-		
6	-	Spare	40001	5	BOOL	3	-	-	-	-	-	-	-	-	Remote	Local	-		
7	-	Spare	40001	6	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
8	-	Spare	40001	7	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
9	-	Spare	40001	8	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
10	-	Spare	40001	9	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
11	-	Spare	40001	10	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
12	-	Spare	40001	11	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
13	-	Spare	40001	12	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
14	-	Spare	40001	13	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
15	-	Spare	40001	14	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
16	-	Spare	40001	15	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
17	XS-201	Accept alarms / trips (from DCS)	40002	0	BOOL	6	-	-	-	-	-	-	-	-	-	Accept	-	-	
18	XS-202	Reset alarms / trips (from DCS)	40002	1	BOOL	6	-	-	-	-	-	-	-	-	-	Reset	-	-	
19	XS-203	Start Compressor (from DCS)	40002	2	BOOL	6	-	-	-	-	-	-	-	-	-	Start	-	-	
20	XS-204	Stop Compressor (from DCS)	40002	3	BOOL	6	-	-	-	-	-	-	-	-	-	Stop	-	-	
21	-	Spare	40002	4	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
22	-	Spare	40002	5	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
23	-	Spare	40002	6	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
24	-	Spare	40002	7	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
25	-	Spare	40002	8	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
26	-	Spare	40002	9	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
27	-	Spare	40002	10	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
28	-	Spare	40002	11	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
29	-	Spare	40002	12	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
30	-	Spare	40002	13	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
31	-	Spare	40002	14	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
32	-	Spare	40002	15	BOOL	6	-	-	-	-	-	-	-	-	-	-	-	-	
33	XA-301	Emergency shutdown relay	40003	0	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
34	XA-302	Main motor fault	40003	1	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
35	XA-303	PID controller alarm	40003	2	BOOL	3	-	-	-	-	-	-	-	-	-	Alarm	-	-	
36	-	Spare	40003	3	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
37	-	Spare	40003	4	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
38	-	Spare	40003	5	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
39	-	Spare	40003	6	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
40	-	Spare	40003	7	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
41	-	Spare	40003	8	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
42	-	Spare	40003	9	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
43	-	Spare	40003	10	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
44	-	Spare	40003	11	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
45	-	Spare	40003	12	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
46	-	Spare	40003	13	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
47	-	Spare	40003	14	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
48	-	Spare	40003	15	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
49	TAH-70001	TIT-70001 High Alarm	40004	0	BOOL	3	-	-	-	-	-	-	-	-	-	Alarm	-	-	
50	TAHH-70002	TIT-70002 High Trip	40004	1	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
51	PALL-70003	PIT-70003 Low Trip	40004	2	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
52	PAHH-70003	PIT-70003 High Trip	40004	3	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
53	PALL-70004	PIT-70004 Low Trip	40004	4	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
54	PALL-70007	PIT-70007 Low Trip	40004	5	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
55	PAHH-70007	PIT-70007 High Trip	40004	6	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
56	VAHH-70001	VT-70001 High Trip	40004	7	BOOL	3	-	-	-	-	-	-	-	-	-	Trip	-	-	
57	FAL-70001	FT-70001 Low Alarm	40004	8	BOOL	3	-	-	-	-	-	-	-	-	-	Alarm	-	-	
58	-	Spare	40004	9	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
59	-	Spare	40004	10	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
60	-	Spare	40004	11	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
61	-	Spare	40004	12	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
62	-	Spare	40004	13	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
63	-	Spare	40004	14	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
64	-	Spare	40004	15	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
65	XY-70001	Compressor inlet solenoid valve	40010	0	BOOL	3	-	-	-	-	-	-	-	-	Close	Open	-	-	
66	XY-70002	Compressor cooling water inlet solenoid valve	40010	1	BOOL	3	-	-	-	-	-	-	-	-	Close	Open	-	-	
67	-	Spare	40010	2	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
68	-	Spare	40010	3	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	
69	19K4	Compressor main motor start	40010	4	BOOL	3	-	-	-	-	-	-	-	-	-	-	Start	-	-
70	19K6	Compressor main motor stop	40010	5	BOOL	3	-	-	-	-	-	-	-	-	-	-	Stop	-	-
71	19K12	Compressor PID control active	40010	6	BOOL	3	-	-	-	-	-	-	-	-	Deactivate	Activate	-	-	
72	-	Spare	40010	7	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	-
73	-	Spare	40010	8	BOOL	3	-	-	-	-	-	-	-	-	-	-	-	-	-

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NO.	AIRPACK TAG NUMBER	SERVICE	HOLDING REGISTER	BIT NO.	SIGNAL TYPE	FUNCTION CODE	UNIT	SCALE		ALARM VALUE(S)	TRIP VALUE(S)	RAW LOW COUNT	RAW HIGH COUNT	ALARM / TRIP TYPE	STATE 0	STATE 1	REMARKS
								0%	100%								
74	-	Spare	40010	9	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
75	-	Spare	40010	10	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
76	-	Spare	40010	11	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
77	-	Spare	40010	12	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
78	-	Spare	40010	13	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
79	-	Spare	40010	14	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
80	-	Spare	40010	15	BOOL	3	-	-	-	-	-	-	-	-	-	-	-
81	TIT-70001	Compressor Inlet Air Temperature	40020	-	32Bit-floating	3	°C	0	80	H: 56	-	0	80	HIGH	-	-	-
82	TIT-70002	Compressor Downstream Air Temperature	40022	-	32Bit-floating	3	°C	0	200	-	HH: 195	0	200	HIGH	-	-	-
83	PIT-70003	Compressor Inlet Pressure	40024	-	32Bit-floating	3	°C	-1	13,5	-	LL: 6,9 HH: 9,1	-1	13,5	OW & HIGH	-	-	-
84	PIT-70004	Compressor Oil Pressure	40026	-	32Bit-floating	3	bar(a)	-1	5	-	LL: 1,5	-1	5	LOW	-	-	-
85	PIT-70007	Compressor Outlet Pressure	40040	-	32Bit-floating	3	bar(a)	0	36	-	LL: 20 HH: 21	0	36	OW & HIGH	-	-	-
86	VT-70001	Compressor Vibration Transmitter	40042	-	32Bit-floating	3	mm/s	0	??	-	HH: 8	0	??	HIGH	-	-	-
87	FI-70001	Cooling Water Outlet Flow	40044	-	32Bit-floating	3	m3/hr	0	??	-	LL: 2,3	0	??	LOW	-	-	-
88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-