

User list		Standard volume		Actual volume		Pressure	
	User		Std. V.		Act.V.		Press.
"Energy"	Vb Volume at base cond. (predecimal places)	C	Vb Volume at base cond. (post-decimal places)	C	Vm Actual volume	C	p Pressure
	VmA Adjustable counter	S	Qb Standard flow	-	Qm Actual flow	-	pMin Lower alarm limit
	p Pressure	-	VbD Disturbance quantity	S	VmD Disturbance quantity	S	pMax Upper alarm limit
	T Temperature	-	VbT Total quantity	-	VmT Total quantity	-	MRL.p Meas. range bottom
	Z Imperfect-gas factor	-	VbA Adjustable counter	S	VmA Adjustable counter	S	MRU.p Meas. range top
	Zb Imperfect-gas factor in standard state	C	VbME Month-end value	-	VmME Monthe-end value	-	p.F Substitute value
	C Conversion factor	-	Time		Time	-	pb Press. at base cond.
	K.F K subst. value	S	Time for VbME		Time for VmME	-	Md.p Pressure mode
	VbME Month-end value	-	Chap. 3.2		Chap. 3.3		Typ.p Press. sensor type
	Time Time for VbME	-	Access rights		Chap. 3.3		SNp Serial no. of sensor
	VmME Month-end value	-	The EK230 differentiates between 4 access parties. Each party has a lock and a corresponding combination code:				Eq1p Equ.coefficient 1
	Time Time for VmME	-	C Calibration lock M Manufacturer's lock S Supplier's lock K Customer's lock				Eq2p Equ.coefficient 2
	Menu Select. display menu		-		Values which are measured or computed by the volume corrector, but can only be labeled and are identified with a dash.		Eq3p Equ.coefficient 3
Operating Instructions Chapter 3.1							

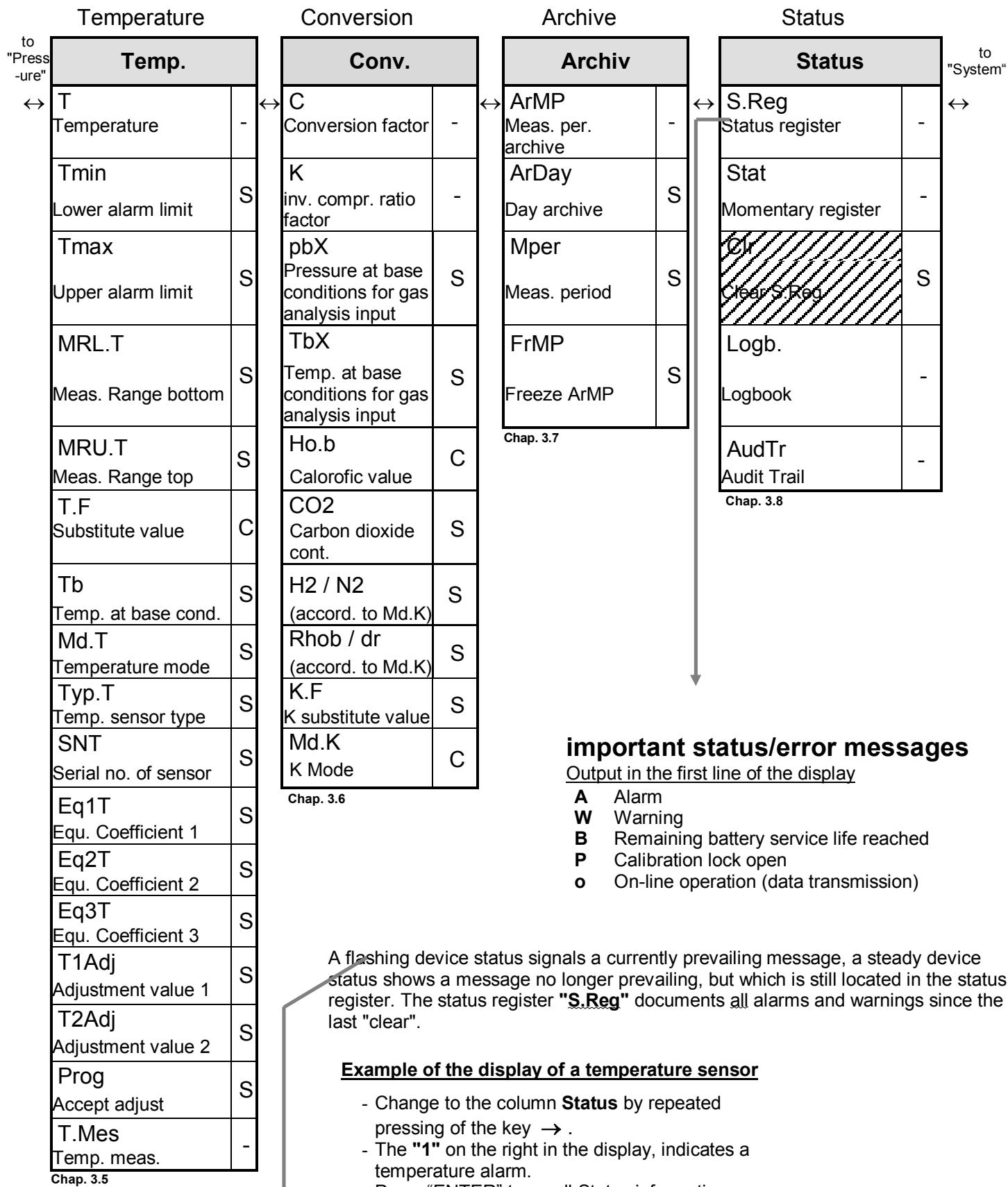
Entry errors

Entry errors are displayed if incorrect entries are made by the operator via the keypad. After the entry key is released, the display skips back to the original state.

				Status		Menu					
				o	k	.	I	n	p	u	s
C	P	.	I	1	-	-	-	-	5	-	-

----x---- the possible error codes correspond to the following table.

Code	Description	Code	Description
1	The archive is empty	8	Entry not possible due to special setting
2	The archive value cannot be read.	11	The entry of the calorific value Ho.b in the energy list is not permitted. Please change Ho.b in the Volume corrector list
4	Parameter cannot be changed (constant)	12	The entry of this source (address) is not permitted.
5	No authorisation for changing the value	13	Clock has to be set to its starting value
6	Invalid value.	14	Gas analysis parameters for AGA-NX-19 do not match
7	Incorrect combination	20	Value for the application-specific display is not defined



important status/error messages

Output in the first line of the display

- A** Alarm
- W** Warning
- B** Remaining battery service life reached
- P** Calibration lock open
- o** On-line operation (data transmission)

A flashing device status signals a currently prevailing message, a steady device status shows a message no longer prevailing, but which is still located in the status register. The status register "**S.Reg**" documents all alarms and warnings since the last "clear".

Example of the display of a temperature sensor

- Change to the column **Status** by repeated pressing of the key → .
- The "1" on the right in the display, indicates a temperature alarm.
- Press "ENTER" to recall Status information as short text

System		Service		Inputs		Outputs	
System		Serv.		Inputs		Outp.	
Time Date and time	S	Bat.R Remain. bat. life	-	cp.I1 cp va. Input 1	C	Md.O1 Mode for Output 1	"SIO"
MdTm Daylight sav. y/n	S	Bat.C Battery capacity	S	cp.I2 cp val. Input 2	S	SC.O1 Source Output 1	"SIO"
MCyc Meas. cycle time	C	St.SL Supplier lock	S	Md.I2 Mode for Input 2	S	cp.O1 cp value Output 1	"SIO"
Ocyc Operating cycle time	S	Cod.S Supplier code	S	St.I2 Status on Input 2	-	SpO1 Status pointer A1	"SIO"
Disp D. switch-off time	S	St.CL Customer lock	K	MdMI2 Mode monitor. E2	S	Md.O2 Mode for Output 2	"SIO"
Aut.V D. changeover tm.	C	Cod.C Customer code	K	SC.I2 Source mon. E2	S	SC.O2 Source Output 2	"SIO"
Ta.Rg Ambient temp.	C	St.PL Calibration lock	K	L1.I2 Limit 1 for E2	S	cp.O2 cp value Output 2	"SIO"
Vers Software version	-	Adj.T Adjustment factor	C	L2.I2 Limit 2 for E2	S	SpO2 Status pointer A2	"SIO"
Chk Softw. checksum	-	Save Save all data	S	Spi2 Stat. pointer E2	S	Md.O3 Mode for Output 3	"SIO"
Chap. 3.9		Clr.A Clear meas. archive	C	St.I3 Status on Input 3	-	SC.O3 Source Output 3	"SIO"
Chap. 3.11		Clr.V Clear counter	C	MdMI3 Mode mon. E3	S	cp.O3 cp value Output 3	"SIO"
Chap. 3.12		Clr.X Initialise device	C	SC.I3 Source mon. E3	S	SpO3 Status pointer A3	"SIO"
Chap. 3.10		Bin.T Temp. raw value	-	L1.I3 Limit 1 for E3	S	Md.O4 Mode for Output 4	"SIO"
Chap. 3.11		Bin.p Pressure raw value	-	Spi3 Stat. pointer mon. E3	S	SC.O4 Source Output 4	"SIO"
Chap. 3.12		Addr Addr. user display	S	SNM Serial no. of meter	S	cp.O4 cp value Output 4	"SIO"
Chap. 3.10		UsD2 User display	S	Chap. 3.11		SpO4 Status pointer A4	"SIO"
Chap. 3.12		WRp Repair counter W	S	Chap. 3.11		Chap. 3.12	
Chap. 3.10		VbRp Repair Counter Vb	S	Chap. 3.12		Chap. 3.10	
Chap. 3.12		VmRp Repaier counter V	S	Chap. 3.11		Chap. 3.12	
Chap. 3.10		Rep. Repair Mode	C	Chap. 3.12		Chap. 3.10	
Chap. 3.12		ArCal Frozen values	S	Chap. 3.11		Chap. 3.12	
Chap. 3.10		Frz Freeze	S	Chap. 3.12		Chap. 3.10	
Chap. 3.12		- Display test	-	Chap. 3.11		Chap. 3.12	

Clr
Clear S.Reg

Clear status register

Warnings (W) and/or alarms (A) which are no longer prevailing, i.e. only displayed for information, but no longer flashing, are cleared in the menu "Status" – "Clr" by pressing the – ↑ + ↓ keys (ENTER). To the right in the display a "0" flashes. By pressing the ↑ key the value is set to "1". Pressing the – ↑ + ↓ keys (ENTER) again clears the status register and **ok** appears in the display. Alarm or warning statuses still prevailing are then again indicated with the letter A and/or W flashing in the display.

Interfaces		Energy	
Ser.IO		Energy	
to "Outp uts"		W	S
↔ Md.S2 Mode Interface 2	S	Energy	
DF.S2 Data format Interf. 2	S	P Power	-
Bd.S2 Baud rate interf. 2	S	WD W disturbance	S
Num.T Ring tones bef. answer	S	WT W total	-
M.INI initialise modem	S	WA W adjustable	S
Csync Remote clock setting	C	Ho.b Calorific value	S
GSM.N GSM network	-	W.ME W month end	-
GSM.L Reception level	-	Time Time of W.ME	-
Bd.S1 Baud rate interf. 1	S	Chap. 3.14	
CW1.S Call window 1 Start	S		
CW1.E Call window 1 end	S		
CW2.S/M.Cw1 (accord. to setting)	S		
CW2.E/M.onl (accord. to setting)	S		

Chap. 3.13