Left diagram labels (Fig. 3-1):

Read in cal adapter [8]

Call cal mode [3]

Call measurem. mode

CAL

Enter cal date [1] — Filter setting [1] — Input pointer [1] — Change channel A → B — Read in cal adapter

Change cal function — Call cal function

dc? [6] / Uc? [1] / Ac? [5] / dAt? [4]

Check measurement [2] — Enter cal date [1] — Filter setting [1] — Input pointer [1] — Change channel A → B — Read in cal adapter

Enter cal voltage

dc.0.x [6] / Uc.0.1 [1] / Ac.0.x [5]   [4] [6]

Check measurement [1] — Enter cal date [1] — Filter setting [1] — Input pointer [1] — Change channel A → B — Read in cal adapter — Reset measurement range

Trigger offset determin.

dc.bx [6] / Uc.b1 [1] / Ac.bx [5]   [4] [6]

Display

Trigger calibration

	Key sequence	IEC-bus command
Read in cal adapter	———	CACØ (CØ in measurement mode)
Call cal mode [3]	SHIFT SPEC 4	CALIBRATION
Call measurement mode	SHIFT SHIFT (SHIFT)	CALEND
Call cal function [4]	6 (1, 5)	CA6 (CA1, CA5)
Change cal function	SHIFT	CAE1
Enter cal date [5]	<date> STO	CADD <date>
Enter cal voltage [5][9]	<voltage> STO	CARB <voltage>
Trigger offset measurem. [4]	6 (1, 5)	CAL
Trigger calibration [4]	6 (1, 5)	CAL
Reset measurement range	CLEAR	CAC1
Filter setting	———	CAFØ (CAF1, CAF2, CAF3, CAF4, CAF5)
Change channel A → B [10]	7 (4)	CAPA (CAPB)
Input pointer	———	CAIA (CAIB)
Check measurement (display) [7]	SPEC (CLEAR)	CAX1 (CAC1)
Check measurement (display + output to listen-only device) [7]	SPEC STO	
Check measurement (display + output to controller)		IECOUT9, "CAX1" IECOUT9, "CAC1" oder IECOUT9, "CAX1" IECIN9, Q$
Programming example for PUC/PPC/PCA		

[1]) only via IEC bus

[2]) compulsory with 1st calibration after basic setting (display dAt?)

[3]) prior to keyboard control remove the jumper inhibiting calibration on the computer board (Section 3.4.1)

[4]) 6: DC probe amplifier A/B   1: Temp. sensor   5: AC probe amplifier A (B)

[5]) <date> and <voltage> are input data
They consist of a sequence of figures keys (incl. decimal point) or a numeric string (IEC bus).

[6]) x = 1, 2, 3, 4 (measurement range)

[7]) Measurement of calibration voltage connected to basic unit. Reset using CLEAR key or IEC-bus command CAC1 must be accomplished before continuation of calibration. It is not necessary between two test measurements. The IEC-bus command CAC1 must not be sent if the measurement result has been read in by the controller (reset measurement range).

[8]) Display E020

[9]) see Table 1-1

[10]) Via keyboard only with display CAL   7: channel A   4: channel B

Fig. 3-1   Syntax diagramm: Calibration basic unit URV5/NRV