

2.4.6.4 Device Trigger

When the URV5 receives the addressed command GET (group execute trigger), it immediately triggers a measurement with the selected setting. This trigger command corresponds to the device-specific trigger command "X1", but requires much less time for execution than X1.

2.4.6.5 Service Request

By setting the line SRQ (service request) the URV5 is able to request service from the controller. This is however only useful if the controller is to be informed of the completion of a measurement or autocalibration or of an error. The interface can be set accordingly by means of the command Q0 to Q3 (Table 2-14).

An * in Table 2-22 means that with setting Q1 to Q3 an SRQ will be made, "-" means that no SRQ will be made in this case.

If after reception of a service request the controller carries out a serial poll, it can determine the device status which has caused the service request by decoding the status byte (Fig. 2-14 and Table 2-22).

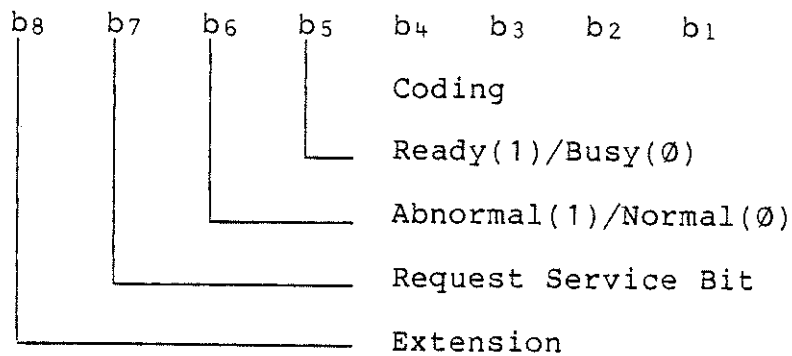


Fig. 2-14 Status byte

Table 2-22 Coding of status byte

Device status	Status byte	Decimal equivalent	Q1	Q2	Q3
Measured value ready	0 1 0 1 0 0 0 0	80	*	-	-
Line (of multiple-line text) ready	0 1 0 1 0 1 0 1	85	*	*	-
Calibr. value ready	0 1 0 1 0 1 1 0	86	*	*	-
Auto offset on	0 1 0 1 0 1 1 1	87	*	*	-
Auto offset off	0 1 0 1 1 0 0 0	88	*	*	-
Zero measurement ready	0 1 0 1 1 0 1 0	90	*	*	-
Syntax error	0 1 1 0 0 0 0 0	96	*	*	*
Command illegal	0 1 1 0 0 0 0 1	97	*	*	*
Input data incorrect	0 1 1 0 0 0 1 0	98	*	*	*
Controller input without trigger	0 1 1 0 0 0 1 1	99	*	*	*
Hardware error	0 1 1 0 0 1 0 0	100	*	*	*
URV5 not ready for output	0 1 1 0 0 1 0 1	101	*	*	*
Overranging during range hold	0 1 1 0 0 1 1 0	102	*	*	*
No probe in measurement channel	0 1 1 0 1 0 0 0	104	*	*	*
Calibration faulty	0 1 1 1 0 0 0 1	113	*	*	*
Change of probe (insertion of a probe)	0 1 1 1 0 0 1 0	114	*	*	*
Zero adjustment incorrect	0 1 1 1 0 0 1 1	115	*	*	*