

Live Weighing Option

PN 53852

The live weighing option extends the function of the IQ plus 390-DC indicator to provide the specialized weight sampling, display, and print functions needed for animal weighing applications. This addendum describes the configuration and operation of the live weighing option only. See the IQ plus 390-DC *Installation Manual* for complete installation, configuration, and calibration information.

Configuration

The extended configuration for the live weighing option is contained in the PROGRM menu. All other configuration menus are identical to the standard IQ plus 390-DC menus.

The ANIMAL submenu on the PROGRM menu (see Figure 1 on page 2) provides parameters to do the following:

- Enable the live weighing option
- Set the sampling time for acquiring animal weight
- Set the display time for the acquired weight
- Select whether the animal weight is automatically printed

- Select whether the indicator display shows the current scale weight (live animal weight) or is blank (no weight displayed) when the specified sample and display times have expired

Table 1 on page 2 describes each of the ANIMAL submenu parameters.

NOTE: All features of the standard indicator are included in the option software. When the live weighing option is disabled, the indicator functions as a standard IQ plus 390-DC. Use of piece count mode is not recommended when the live weighing option is enabled.

Operation

With the indicator configured for live weighing and calibrated, do the following to operate in live weighing mode:

1. Zero the scale. Acquire tare, if any.
2. Lead animal onto scale, then press PRINT to acquire the animal weight. The indicator display shows the message *-SMP-* as it acquires the sample weight.
3. When the sample time (specified on the SMPTIM parameter) expires, the display shows the animal weight acquired over that time and flashes the units annunciator to indicate acquired weight display. The acquired weight is displayed for the length of time specified on the DSPTIM parameter.
 - If AUTOPRT is ON, a print ticket is sent to the serial port as soon as the weight is acquired.
 - If AUTOPRT is OFF, press PRINT while the acquired weight is displayed to send data to the serial port.
4. When the display time (DSPTIM parameter value) expires, the indicator display returns to the display mode specified on the WEIMOD parameter:
 - If WEIMOD is NORMAL, the display shows the current scale weight until the next weight sample is acquired by pressing the PRINT key.
 - If WEIMOD is BLANK, the numeric digits on the display are blanked out (no weight display). The only weight values shown in this mode are the acquired animal weights. The display remains blank until the next weight sample is acquired by pressing the PRINT key.

Serial Data Considerations

When operating in live weighing mode with AUTOPRT set OFF, ensure that the acquired weight display time (DSPTIM parameter) is set to a large enough value to allow the operator time to press the PRINT key to generate a demand print ticket, if required. In live weighing mode, the PRINT key can send data to the serial port only while the acquired weight is displayed; pressing the PRINT key at any other time acquires a new weight sample.

Demand print data (SERIAL menu STREAM parameter set OFF) uses the NFMT ticket format if a tare is in the system, GFMT if no tare is acquired or entered. The <G> format command on the GFMT ticket and the <N> format command on the NFMT ticket both represent the animal weight.

When streaming continuous data (SERIAL menu STREAM parameter set to LFT or INDUST), the weight data displayed or printed depends on the value set for the WEIMOD parameter: If WEIMOD is set to BLANK and no weight data is shown on the current display, streamed weight data is also blank.

Live Weighing Program Menu

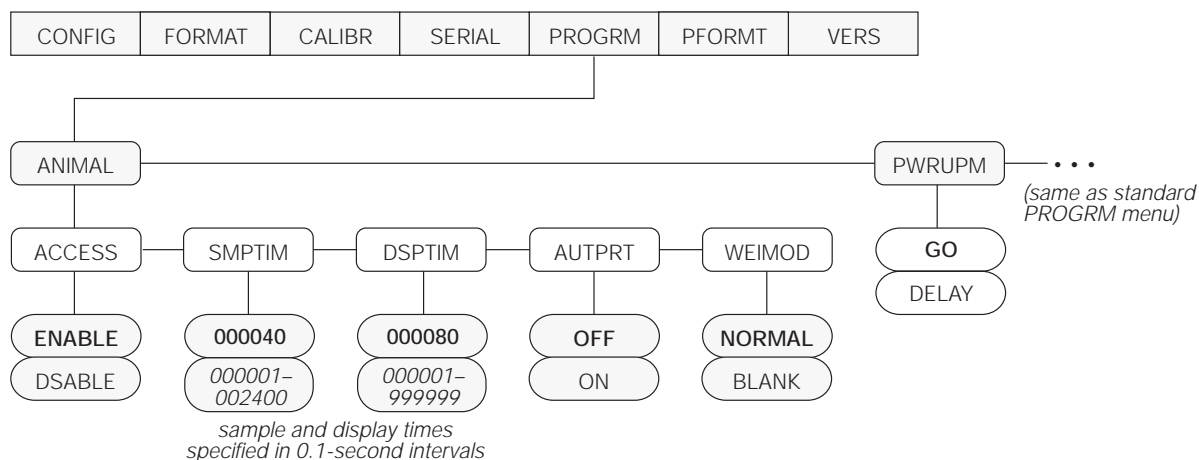


Figure 1. ANIMAL Submenu on IQ plus 390-DC PROGRAM Menu

PROGRAM Menu / ANIMAL Submenu		
Parameter	Choices	Description
Level 3 Submenus		
ACCESS	ENABLE DSABLE	Animal mode access. Specify ENABLE to use the live weighing option; specify DSABLE to operate as standard indicator.
SMPTIM	000040 number	Sample time. Specifies, in 0.1-second intervals, the sample time during which animal weight is acquired. The default value (000040) is 4 seconds.
DSPTIM	000080 number	Display time. Specifies, in 0.1-second intervals, how long the acquired animal weight is displayed. The default value (000080) is 8 seconds.
AUTPRT	OFF ON	Automatic print. Specifies whether animal weight data is automatically sent to the serial port once the weight is acquired.
WEIMOD	NORMAL BLANK	Weigh mode. Specifies whether the indicator display shows the current scale weight (NORMAL) or is blank (no weight data) when the acquired weight display time expires.

Table 1. ANIMAL Submenu Parameters on PROGRAM Menu