# Functions 6

This chapter alphabetically presents each calibration function your loadable module calls to interface with KCMS Calibrator Tool. For each function, the chapter provides its purpose, arguments, and return values.

Once a module is dynamically opened, Calibrator Tool uses `dlsym(3X)` to access the module functions by their symbolic names. Then it adds the names to the process symbol space.

# KCMSCMonClose()

```
int
KCMSCMonClose (void);
```

## Purpose

`KCMSCMonClose()` performs any cleaning necessary (for example, unlocking the serial port) for the module code.

## Arguments

None.

## Return Value

Returns 0 if successful; returns any other nonzero value if unsuccessful.

# KCMSCMonInit()

```
int
KCMSCMonInit (KCMSCVisuals *vis_data);
```

## Purpose

KCMSCMonInit() accepts a pointer to a KCMSCVisuals structure passed to it from the Calibrator Tool main program and is used by the module for initialization. Examples of initialization tasks the module might perform include:

- Initializing the RS-232 serial port, if a hardware colorimeter is used to take color measurements
- Starting its own GUI-based application
- Setting everything necessary to measure monitor data
- Doing nothing, if the measurements were previously stored in a file by the end user

## Arguments

*vis_data*

Points to a KCMSCVisuals structure. For details on the format of this structure, see ""KCMSCVisuals" on page 29 in Chapter 5, "Data Structures."

## Return Value

Returns 0 if successful; returns any other nonzero value if the hardware fails to initialize.

# 6

## KCMSCMonMeasure()

```
int
KCMSCMonMeasure (KCMSCData *measured_data);
```

### Purpose

KCMSCMonMeasure() accepts a pointer to a KCMSCData structure passed to it from the Calibrator Tool main program and performs the following functions:

- It performs the number of measurement sets specified by the value of the size field in the KCMSCData structure (alternately, it can be programmed to read all the measurements previously created).
- It uses the measurement values to fill in the appropriate fields in the KCMSCData structure.

### Arguments

*measured_data*

Points to a KCMSCData structure. For details on the format of this structure, see"KCMSCData" on page 28 in Chapter 5, "Data Structures."

### Return Value

Returns 0 if successful; returns any other nonzero value if the collection of data was interrupted either by the user or by failure of the hardware to measure the data.