

Sysmac Library for NJ/NX/NY Controller

SYSMAC-XR010

Weighing Control Library



Easily design weighing systems using load cells.

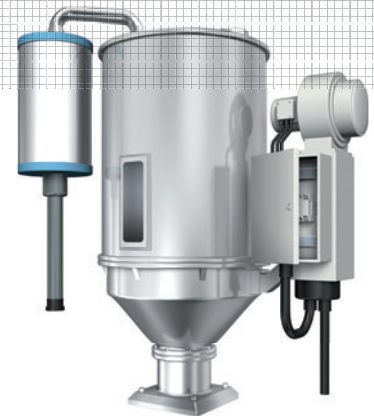
Issue 1 Complicated programming is required to communicate with the weighing indicator and weighing controller.

Issue 2 Writing programs for calibration, operation interface, and control in ladder is time consuming work.

Weighing Control Library offers solution!

The weighing system using the NJ/NX/NY Controller and NX-IO eliminates the need for a communications program.

- The Function in this library easily converts to a display value
- The Function Blocks in this library control valves to discharge a constant quantity of the raw material



Weighing application using Sysmac Library
(configuration of feed weighing system)

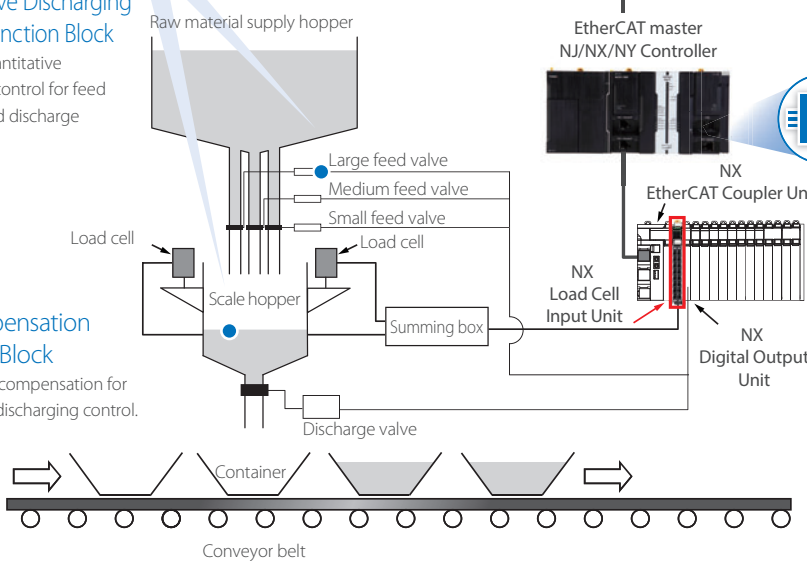
Eliminate variations in filling quantities

Quantitative Discharging Control Function Block

Performs quantitative discharging control for feed weighing and discharge weighing.

Fall Compensation Function Block

Performs fall compensation for quantitative discharging control.



NA Programmable Terminal

Reduce time required to build weighing/measurement system

Display Value ConversionFunction

Converts a measurement value to a display value to be shown on the HMI.

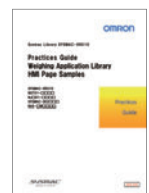
Interface

HMI screen templates to perform calibration, disconnection test, and control for feed weighing are available as samples.



Practices Guide for Sample Program & HMI Page Samples

Describes how to use sample programs and sample screens.



Compatible Models

Name	Model	Version
Machine Automation Controller NJ/NX CPU Unit	NX701-□□□□ NJ101-□□□□	Version 1.10 or later
	NJ501-□□□□ NJ301-□□□□	Version 1.05 or later
	NX1P2-□□□□□□(1)	Version 1.13 or later
Industrial PC Platform NY IPC Machine Controller	NY5□□-1	Version 1.12 or later
Automation Software Sysmac Studio	SYSMAC-SE2□□□□	Version 1.16 or higher
NX Load Cell Input Unit	NX-RS1201	Version 1.00 or later

Function Block (FB)/Function (FUN) Specifications

Name	FB/FUN name	Description
Display Value Conversion	WC_WeightIndication	Converts a measurement value to a display value to be shown on the HMI.
Quantitative Discharging Control	WC_FixedWeightCtrl	Performs quantitative discharging control for feed weighing and discharge weighing.
Fall Compensation	WC_FallCompensation	Performs fall compensation for quantitative discharging control.

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Note: Do not use this document to operate the Unit.

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