

Explanation of the operation for the load cell monitor

[Operation outline]

The weight is displayed on the monitor based on the monitored torque value.

[How to use the sample program]

<Sample program overview>

File name	Description	Model	Programming tool
vol3_load_monitor_eng_a.fgw	Ladder program	FR-A800	FR Configurator2 (Developer)

<Startup procedure>

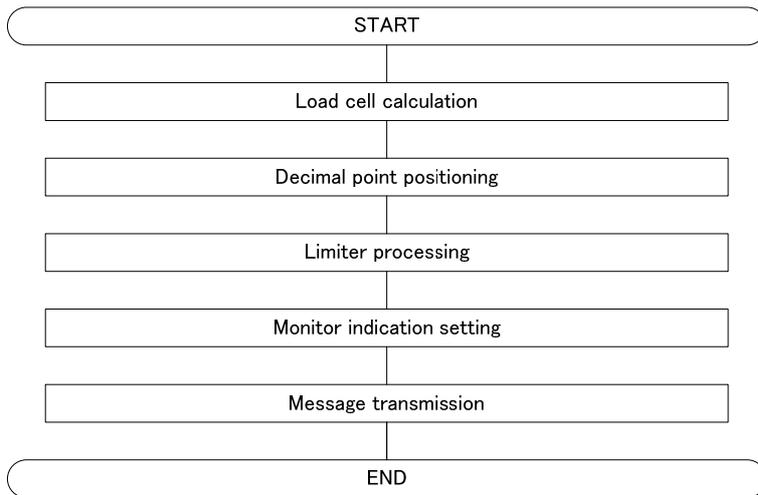
- ① Decompress the downloaded file to a folder.
- ② Double click the file and start up each programming tool.
- ③ The language setting of the ladder programs is initially set to Japanese.
To change the language setting, select [Tool] -> [Language Selection] and set the language to the desired language.
- ④ Write the program to the FR-A800.
- ⑤ After the writing completes, reset the FR-A800.

<Operation method>

- ① Enter the weight at the rated torque in Pr.1150. Enter the position of a decimal point in Pr.1151.
Example: On the assumption that the weight of 100 kg is applied at the rated torque (19.6 N·m) of 3.7 kW motor (4-pole, 60 Hz), enter "100" in Pr.1150.
When no decimal point is required, enter "0" in Pr.1151.
When a decimal point (0.1 increment) is required, enter "1" in Pr.1151.
- ② Assign the constant speed signal. (In this program, assign it to terminal FU).
- ③ Turn ON the SQ signal to set the PLC function in the RUN state.
- ④ The ladder program can be executed by turning ON the STF signal.
(To use the STR signal, rewrite the ladder program.)
- ⑤ Set "40" in Pr.774 (PU/DU monitor selection 1). The value calculated in the ladder program is displayed.

[Circuit structure of the sample ladders]

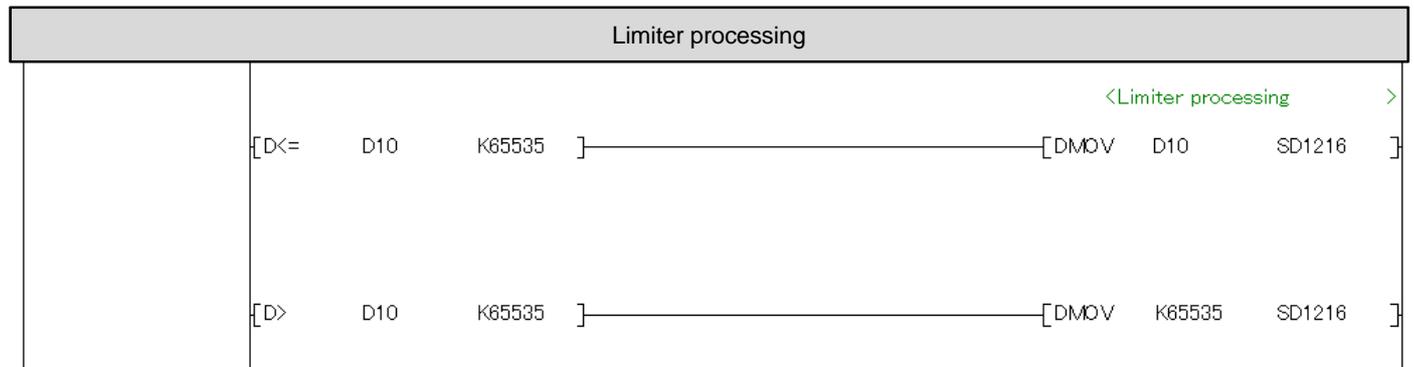
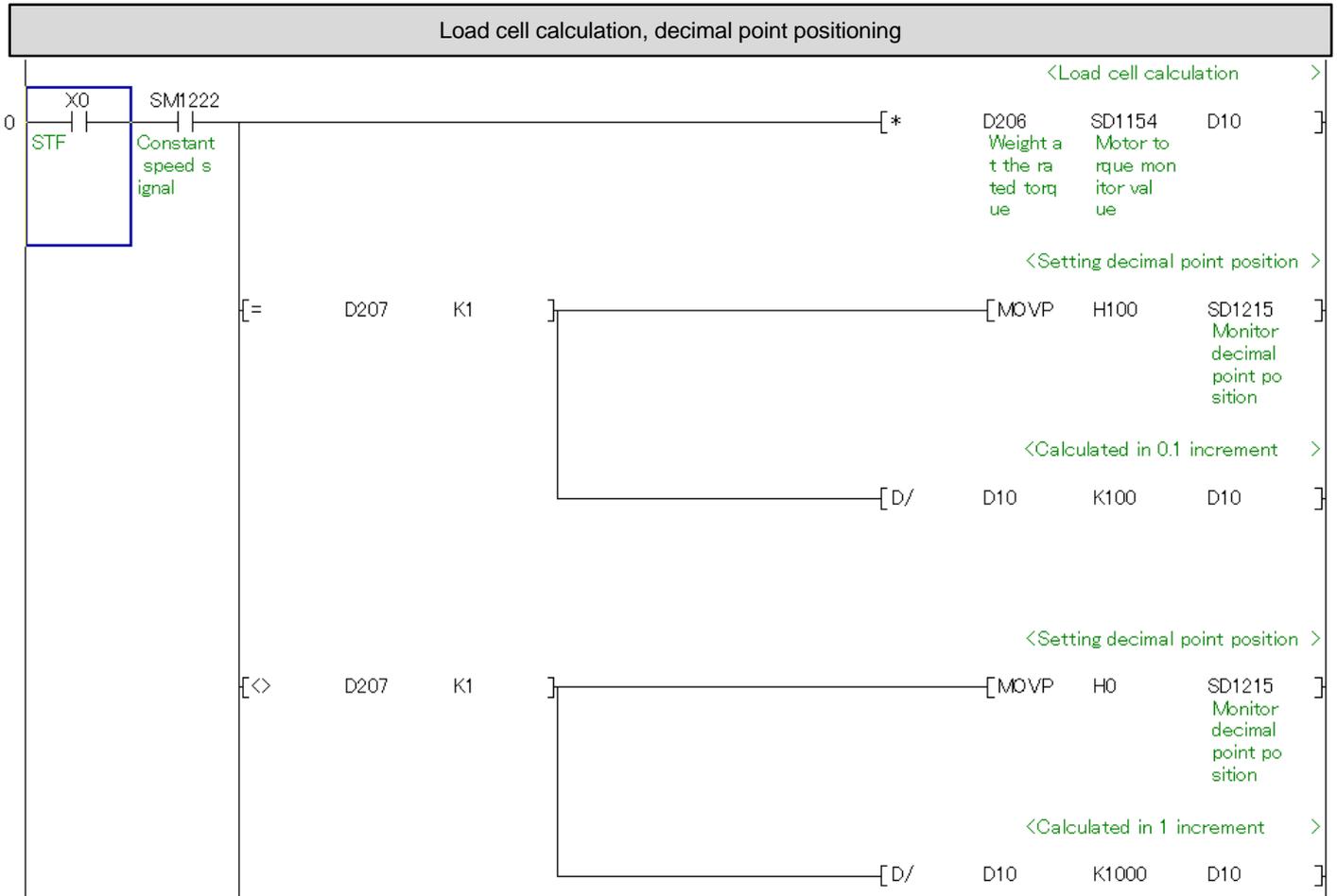
<MAIN: scan execution>

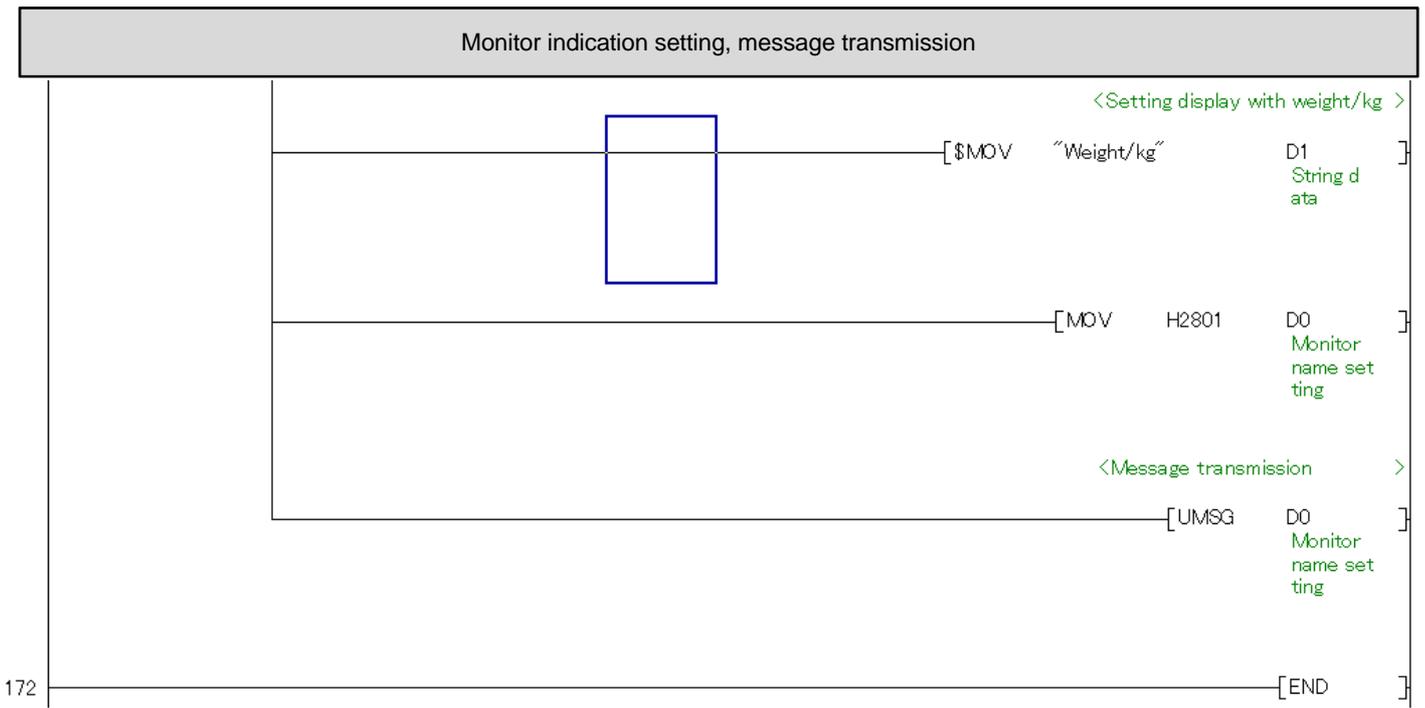


[Devices]

Device No.	Description	Device No.	Description	Type
		D0	Monitor name setting	16 bits
		D1 to D8	String data	16 bits
		D10	Load cell calculation	16 bits
		D206 (Pr.1150)	Weight at the rated torque	16 bits
		D207 (Pr.1151)	Decimal point position information	16 bits

[Sample ladder diagrams]





*For using the sample program in the actual system, verify sufficiently that the system can be controlled properly.