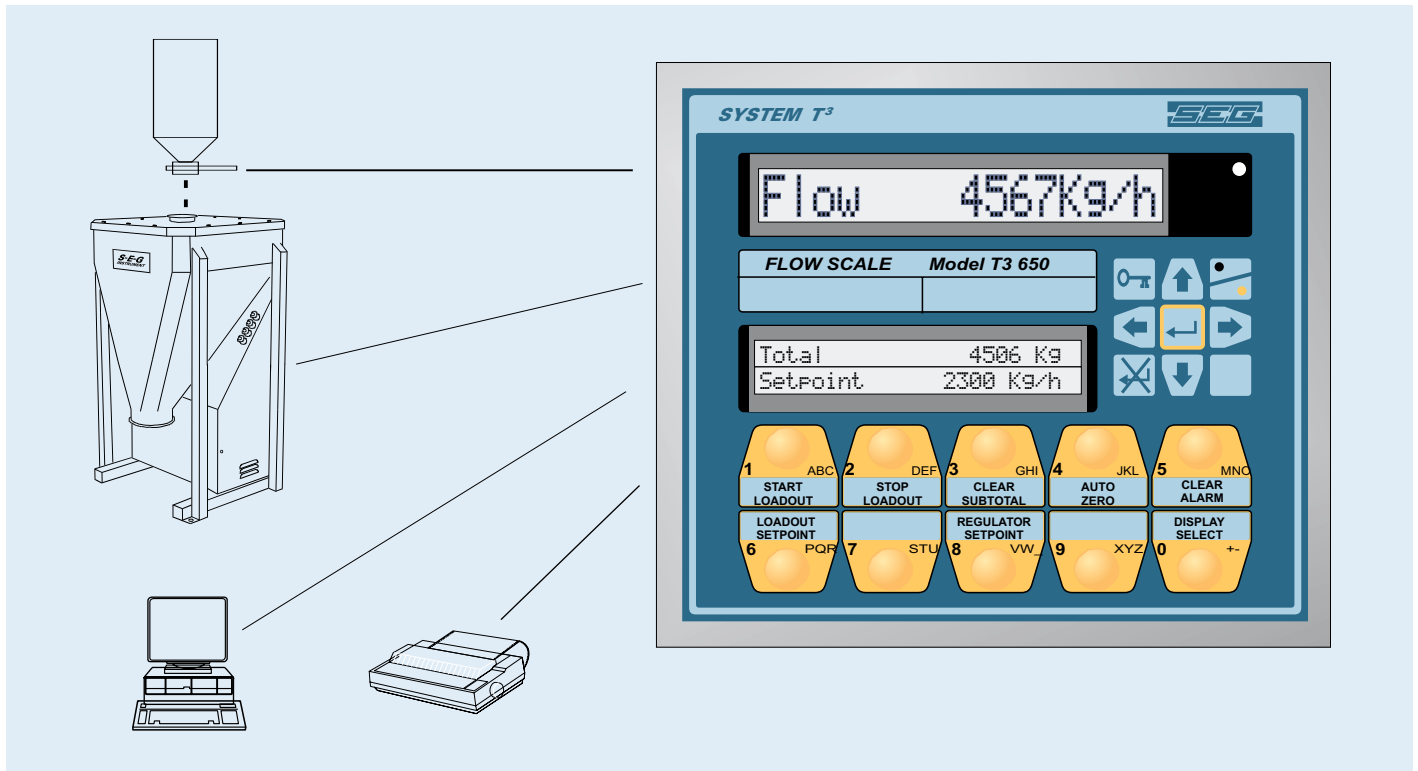# SEG

# SYSTEM T3 Model 650

## TECHNICAL DATA AND FEATURES



*SYSTEM T3 Model 650 typical arrangement of a mass flow meter installation*

SEG Model T3 650 is an advanced Flow meter controller with built-in PID-regulator and loadout functions. A splash proof key pad allows the operator to communicate with the system via a user friendly menu system.

Remote control via I/O-units

Serial communications interfaces.

Semi automatic Set-up.

Selectable languages

Programmable control logic

Modular Industrial design

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## FRONT KEY FUNCTIONS

| Key number | Function |
|---|---|
| 1 START LOADOUT | Start of loadout function. |
| 2 STOP LOADOUT | Terminates loadout function. |
| 3 CLEAR SUBTOTAL | Zero sets indicated totaliser subtotals 1 or 2. |
| 4 AUTO ZERO | Initiates an autozero sequence. |
| 5 CLEAR ALARM | Resets an Alarm indication. |
| 6 LOADOUT SETPOINT | Enters desired loadout setpoint value. |
| 7 | |
| 8 REGULATOR SETPOINT | Enters desired regulator setpoint value. |
| 9 | |
| 0 DISPLAY SELECT | Toggles lower display indication between Total, Subtotals or regulator output indication. |

Arrow and enter keys for menu navigation when in program mode

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## DISPLAY READING

### Upper Display

Current Mode (Flow, Empty, Azero, Stop etc.)  and Flow indication with selected units (kg/h, t/h).

### Lower Display

| | |
|---|---|
| Row 1. | Selected totaliser (Total, Subtot.1, Subtot.2) or regulator output signal (%mA). Alarm information (Bad Frequence, No system zero etc.) |
| Row 2. | Setpoints (xxxxkg/h) / Operator communication (menu system) |

## OUTPUT functions

Below are available relay and analogue functions listed (Requires optional I/O-units)

Output relays: 250VAC/10A  Analogue signals: 0/4-20mA  Refer to spec.T42-2e

| | | |
|---|---|---|
| Motor ON 1 | Empty | Main feed, Loadout |
| Motor Low ON | Level 2 | Feed Time, Loadout |
| General Alarm | Level 3 | Total 2, Loadout |
| Totalising | Regulator Dev+/- | Total 1, General  (built-in 24Vdc pulse) |
| Regulator Dev.+ | Loadout Dev+ | Flow indication (analogue signal) |
| Regulator Dev.- | Loadout Dev- | Flow indication, scaled (analogue signal) |
| Level 1 | Wheel running | Regulator output signal (analogue signal) |
| Zero OK | Overload | |
| Zero On | Sample | |

## INPUT functions

Below are available relay and analogue functions listed (Requires optional I/O-units)

| | |
|---|---|
| Clear Alarms | Block Totalising |
| Manual (regulator) | FlowtoSetpt. (regulator) |
| Use PID 1/PID 2 | Step.+ (Regulator, manual) |
| Ask for zero | Step.-  (Regulator, manual) |
| Start Loadout | Keyboard lock |
| Stop Loadout | Regulator setpoint (0/4-20mA/0-10V) |
| Abort Loadout | |
| Block AutoZero | |

## CONTROL

Built-in PID regulator with 2 set of parameters. Remote control of setpoint, and manual operation. Outputs for Deviation+/- etc.

Loadout function including automatic afterflow control with outputs for deviation+/-, feed control and totalisation.

Auto-zero function when running empty.

Password protected menu system for parameter settings.

Selectable flow levels for surveillance of load time and running time.

## ADDITIONAL

2 com ports available for connection to printer, Host computer or additional T3-controllers for ratio control.

Serial interfaces available for:   RS232C, RS485 and 20mA Current Loop