

# 2023

## AT-540 PROGRAMMER TECHNICAL DOSSIER



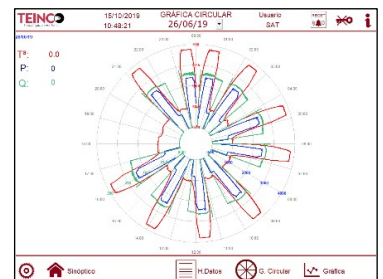
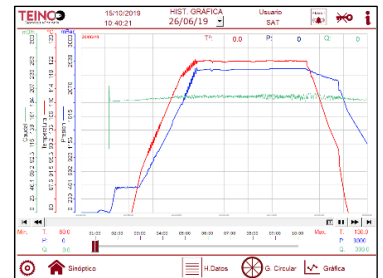
**1. AT-540 Programmer**



calculations.

- 15" HMI touch panel.
- Process synoptic.
- Library of 60 programs and 20 phases each.
- Possibility to simultaneously control five process variables and performs F0 and P0

- Two programmable analog modulation outputs.
- Digital recording and monitoring of process signals.
- Interactive graphics.
- Display of graphs in standard and circular format.
- Process history display.
- Data visualization in alphanumeric format.
- Recirculation pump flow control.
- Visualization and monitoring of process temperatures and pressure.

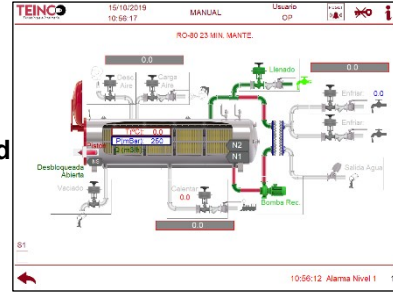


TEINCO	15/10/2019	ALARMAS	Usuario	CP	Alarma
11:03:23	12:09:58	Fallo Sensor Caudal	CP		10/15/19
11:03:34		Fallo Potencia Arrancador Bomba	CP		10/15/19
11:03:38		Cavitacion Bomba	CP		10/15/19
11:03:53		Caudal Minimo	CP		10/15/19
11:04:13		Fallo Bomba	CP		10/15/19
11:04:16		Fallo Termostato Surtido Llenado	CP		10/15/19

- Historical display and logging of system alarms.
- Display and acoustic warning of process alarms.
- Manual acknowledgement of alarms.
- Distinction by color of active, acknowledged and standardized alarms.

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- Manual operation of the machine from the screen.
- Access to manual control restricted by user and password.
- Possibility of modifying valve opening percentage.



TEINCO 16/10/2019 Resumen Tiempos Ejecución Cíclos Usuario OP

Fase	Duración Fase	Programa	Inicio	Fin	Tempo Inicial	Acumulado	Acumulado	Prog. N°	18
	hh mm ss		hh mm ss	hh mm ss	hh mm ss	hh mm ss	hh mm ss		
1	0 0 10	18	12 48	18 12 48	18 12 48	0 0 0 0	0 0 0 0	60 0 0	0
2	0 0 10	18	12 58	18 12 58	18 12 58	0 0 0 0	0 0 0 0	60 0 0	450
3	0 0 10	18	13 08	18 13 08	18 13 08	0 0 0 0	0 0 0 0	60 0 0	450
4	0 0 10	18	13 18	18 13 18	18 13 18	0 0 0 0	0 0 0 0	60 0 0	1180
5	0 0 10	18	13 28	18 13 28	18 13 28	0 0 0 0	0 0 0 0	60 0 0	1820
6	0 0 23	18	13 51	18 13 51	18 13 51	0 0 0 0	0 0 0 0	120 0 0	2420
7	0 0 0	18	13 51	18 13 51	18 13 51	0 0 0 0	0 0 0 0	60 0 0	2250
8	0 0 0	18	13 51	18 13 51	18 13 51	0 0 0 0	0 0 0 0	60 0 0	1420
9	0 0 0	18	13 51	18 13 51	18 13 51	0 0 0 0	0 0 0 0	60 0 0	1020
10	0 0 0	18	13 51	18 13 51	18 13 51	0 0 0 0	0 0 0 0	60 0 0	850
11	0 0 0	18	13 51	18 13 51	18 13 51	0 0 0 0	0 0 0 0	60 0 0	800
12	0 0 0	18	13 51	18 13 51	18 13 51	0 0 0 0	0 0 0 0	60 0 0	0
Total Final		Terminado	Acabado	Fin Cíclo	Último			Historial	
1 18 00		0 0 0 0	18 13 51	18 13 51	18 13 51			Regresar	
Ac. Cíclo		0 0 0 0	Ac. Mant.	0 0 0 0	Ac. Enf.			0 0 0 0	

- Exhaustive control of time deviations by process.
- Monitoring from the beginning of the process of theoretical and real times.
- Real time estimation of process completion based on accumulated time deviations.

- Historical summary of accumulated times in each part of the process (Heating, Maintenance, Cooling,...).
- Visualization of the average of accumulated times during the last ten processes or historically.
- Possibility of manual reset of the counters.

TEINCO 16/10/2019 Resumen Histórico Usuario OP

Proceso	Ac. Calent.	Ac. Mant.	Ac. Enf.	Nº Cíclos
hh mm ss	hh mm ss	hh mm ss	hh mm ss	hh mm ss
18 00	0 0 0 0	0 0 0 0	0 0 0 0	0
2	0 0 0 0	0 0 0 0	0 0 0 0	0
3	0 0 0 0	0 0 0 0	0 0 0 0	0
4	0 0 0 0	0 0 0 0	0 0 0 0	0
5	0 0 0 0	0 0 0 0	0 0 0 0	0
6	0 0 0 0	0 0 0 0	0 0 0 0	0
7	0 0 0 0	0 0 0 0	0 0 0 0	0
8	0 0 0 0	0 0 0 0	0 0 0 0	0
9	0 0 0 0	0 0 0 0	0 0 0 0	0
10	0 0 0 0	0 0 0 0	0 0 0 0	0
11	0 0 0 0	0 0 0 0	0 0 0 0	0
12	0 0 0 0	0 0 0 0	0 0 0 0	0
13	0 0 0 0	0 0 0 0	0 0 0 0	0
14	0 0 0 0	0 0 0 0	0 0 0 0	0
15	0 0 0 0	0 0 0 0	0 0 0 0	0
16	0 0 0 0	0 0 0 0	0 0 0 0	0
17	0 0 0 0	0 0 0 0	0 0 0 0	0
18	0 0 0 0	0 0 0 0	0 0 0 0	0
19	0 0 0 0	0 0 0 0	0 0 0 0	0

TEINCO 16/10/2019 MANTENIMIENTO 1 Usuario OP

<b>Revisión Cuadro de control</b> - Horas de funcionamiento: <input checked="" type="checkbox"/> <b>Reset</b> (00:00:00) (00:00:00) Ser: 12 0 0 0 0 Fecha mantenimiento: 0 0 12   41 Fecha mantenimiento: <input checked="" type="checkbox"/> <b>Reset</b> Date (a/mm/año): 2020 1 11   16	<b>Revisión Programador</b> - Horas de funcionamiento: <input checked="" type="checkbox"/> <b>Reset</b> (00:00:00) (00:00:00) Ser: 48 0 0 0 0 Fecha mantenimiento: 0 0 11   24 Fecha mantenimiento: <input checked="" type="checkbox"/> <b>Reset</b> Date (a/mm/año): 2020 2 12   11	<b>Limpieteza de electrodos</b> - Horas de funcionamiento: <input checked="" type="checkbox"/> <b>Reset</b> (00:00:00) (00:00:00) Ser: 38 12 0 0 0 Fecha mantenimiento: 0 0 11   29 Fecha mantenimiento: <input checked="" type="checkbox"/> <b>Reset</b> Date (a/mm/año): 2020 3 11   12
<b>Revisión de válvulas y juntas</b> - Horas de funcionamiento: <input checked="" type="checkbox"/> <b>Reset</b> (00:00:00) (00:00:00) Ser: 20 0 0 0 0 Fecha mantenimiento: 0 0 12   32 Fecha mantenimiento: <input checked="" type="checkbox"/> <b>Reset</b> Date (a/mm/año): 2020 4 16   13	<b>Engrasa piflonas</b> - Horas de funcionamiento: <input checked="" type="checkbox"/> <b>Reset</b> (00:00:00) (00:00:00) Ser: 50 0 0 0 0 Fecha mantenimiento: 0 0 12   31 Fecha mantenimiento: <input checked="" type="checkbox"/> <b>Reset</b> Date (a/mm/año): 2020 5 9   14	<b>Revisión ventilador</b> - Horas de funcionamiento: <input checked="" type="checkbox"/> <b>Reset</b> (00:00:00) (00:00:00) Ser: 60 0 0 0 0 Fecha mantenimiento: 0 0 12   30 Fecha mantenimiento: <input checked="" type="checkbox"/> <b>Reset</b> Date (a/mm/año): 2020 6 8   15

- Programming of maintenance alarms by operating hours or date.
- Compatibility with CE standards.
- Possibility of logging and supervision software that complies with C.F.R. 21 Part 11 standards.
- Adaptable to other automated regulation processes.
- Valid for any sterilization system.