

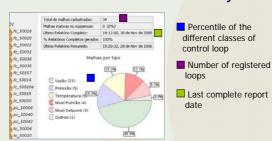


Transforming Control Loop Performance Assessment into Economic Benefits

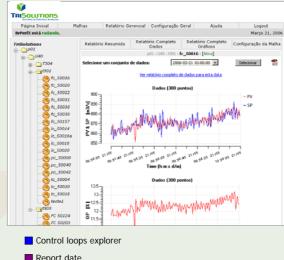
Key Features:

- Control loop on-line monitoring
- Web interface for reports and configuration
- ☐ Direct communication with the process by OPC or vendor specific interfaces
- Report notification by email
- ☐ The most advanced techniques for process performance assessment and diagnostics
- New, Innovative, and Conclusive Indices (much better than Harris's Index)
- ☐ More than 11 current real time applications
- (4 Refinaries, 5 Gas Processing Units, 1 Offshore Plataform, 1 Petrochemical Plant, and many others are being installed)

Current Status Summary



Complete Reports - Graphs



- Report date
- Graph of process variable (PV) and set-point (SP) versus time
- Graph of control action (OP) versus time

Individual Control Loop Graphs



Graphs showing the trends of the indices for every control loop selected

Autocorrelation Function PV histogram Cross-correlation Function Spectral Analysis

Complete Reports - Indices

	Índice de Harris:		— Harris
		0.48629 -	landar.
Oscillation ⁻	Oscilação:	8	Index
	Estatísticas PV:		
	Erro médio:	0.470011)
	Erro percentual:	0.0005948	
	IAE:	1688.17	Traditional Statistics
	PV Média:	790.121	
	Média do erro absoluto:	4.68936	
	Desvio padrão do erro absoluto:	5.3215	
	Desvio Padrão PV:	13.0108	
)
	Análise de Válvulas:		
Valve Analysis	OP média:	7.61576	
	Saturação (%):	100	
	Percurso de válvula (/dia):	6889.5	
	Reversão de válvula (%/ciclo):	38.6111	
	Modo de Operação:		,
	Tempo em manual (%):	100	Operation Mode
	Tempo em automático (%):	0	
	Tempo em cascata (%):	0	
			J
isturbance —	Malhas de Nível:		
mplification	Fator de ampliação de distúrbios:	-	
Factor	Parâmetros de sintonia do controlador:		
	Parâmetro Proporcional:	0	Tuning
	Parâmetro Integral:	0	
	Parâmetro Derivativo:	0	Parameters
			,

Management Report





Index of Plant **Trends**

Pond average of all control loops grades registered in each equipment or plant

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