ISO 19860:2005-03 (E)

Gas turbines - Data acquisition and trend monitoring system requirements for gas turbine installations

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms, abbreviated terms and definitions 1

4 Monitoring systems and their characteristics 3
4.1 General features 3
4.2 Data-acquisition systems 3
4.3 Trend-monitoring systems 4
4.4 Comparison of the systems 6

5 Detailed examination of trend-monitoring systems 7
5.1 The tasks of a trend-monitoring system 7
5.2 Performance-monitoring systems 7
5.3 Combustion- and emission-monitoring systems 9
5.4 Mechanical- and vibration-monitoring systems 10
5.5 Measured parameters 11
5.6 Scaling and validation 14

6 Example of a trend-monitoring system 15

Annex A (informative) Status and further development of trend-monitoring systems 16

Annex B (informative) Diagnostic systems 21

Annex C (informative) Flow chart of the trend-monitoring system 23

Bibliography 28