

# ISO 41064:2023-06 (E)

## Health informatics - Standard communication protocol - Computer-assisted electrocardiography

---

### Contents

Page

Foreword.....	iv
Introduction.....	vi
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions.....	1
4 Symbols and abbreviated terms.....	3
5 Definition of the data contents and format .....	4
5.1 General considerations .....	4
5.2 Specifications for the data structure .....	5
5.3 Pointer section – Section 0 .....	10
5.4 Header information - Patient data / ECG metadata – Section 1 .....	12
5.5 Huffman tables – Section 2 .....	28
5.6 ECG leads definition – Section 3.....	30
5.7 Reserved for legacy SCP-ECG versions – Section 4.....	39
5.8 Encoded type 0 reference beat data – Section 5 .....	41
5.9 Short-term ECG Rhythm data – Section 6 .....	44
5.10 Global ECG measurements – Section 7 .....	46
5.11 Storage of full text interpretive statements – Section 8.....	60
5.12 Storage of manufacturer specific interpretive statements and data related to the overreading trail – Section 9 .....	61
5.13 Per-lead ECG measurements – Section 10 .....	61
5.14 Storage of the universal ECG interpretive statement codes – Section 11.....	70
5.15 Long-term ECG rhythm data – Section 12 .....	74
5.16 Stress tests, Drug trials and Protocol based ECG recordings Metadata – Section 13 .....	79
5.17 Selected ECG Sequences Repository – Section 14.....	90
5.18 Beat-by-Beat ECG measurements and annotations – Section 15.....	94
5.19 Selected ECG beats measurements and annotations – Section 16 .....	109
5.20 Pacemaker Spikes measurements and annotations – Section 17 .....	118
5.21 Additional ECG annotations – Section 18 .....	132
Annex A (normative) Supplementary information and additional encoding specifications .....	139
Annex B (informative) Universal ECG interpretation statements codes .....	147
Annex C (informative) Definition of compliance with the SCP ECG standard .....	173
Annex D (Informative) Methodology of the recommended ECG signal compression technique.....	182
Annex E (informative) Cross-references to other ECG standards .....	217
Annex F (informative) Implementation Recommendations .....	220
Annex G (informative) Glossary .....	222
Annex H (informative) Revision History .....	224
Bibliography .....	227