SLOVENSKI STANDARD
SIST-TP CEN ISO/TR 19664:2019

01-februar-2019

Odzivanje človeka na vibracije - Navodilo in terminologija za instrumente in opremo za ocenjevanje dnevne izpostavljenosti vibracijam na delovnem mestu v skladu z zahtevami glede varnosti in zdravja (ISO/TR 19664:2017)

Human response to vibration - Guidance and terminology for instrumentation and equipment for the assessment of daily vibration exposure at the workplace according to the requirements of health and safety (ISO/TR 19664:2017)

Schwingungseinwirkung auf den Menschen - Anleitung und Fachausdrücke für Messgeräte und Hilfseinrichtungen zur Beurteilung der Tages-Schwingungsbelastung am Arbeitsplatz entsprechend den Gesundheits- und Sicherheitsanforderungen (ISO/TR 19664:2017)

Réponse des individus aux vibrations - Lignes directrices et terminologie pour l'instrumentation et l'équipement d'évaluation de l'exposition journalière aux vibrations sur le lieu de travail selon les exigences de santé et de sécurité (ISO/TR 19664:2017)

Ta slovenski standard je istoveten z: **CEN ISO/TR 19664:2018**

ICS:

13.100	Varnost pri delu. Industrijska higiena	Occupational safety. Industrial hygiene
13.160	Vpliv vibracij in udarcev na ljudi	Vibration and shock with respect to human beings
17.160	Vibracije, meritve udarcev in vibracij	Vibrations, shock and vibration measurements

SIST-TP CEN ISO/TR 19664:2019 **en,fr,de**

TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

CEN ISO/TR 19664

December 2018

ICS 13.160; 17.160

English Version

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This Technical Report was approved by CEN on 9 November 2018. It has been drawn up by the Technical Committee CEN/TC 231.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Ref. No. CEN ISO/TR 19664:2018 E

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European foreword

The text of ISO/TR 19664:2017 has been prepared by Technical Committee ISO/TC 108 "Mechanical vibration, shock and condition monitoring" of the International Organization for Standardization (ISO) and has been taken over as CEN ISO/TR 19664:2018 by Technical Committee CEN/TC 231 "Mechanical vibration and shock" the secretariat of which is held by DIN.

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Endorsement notice

The text of ISO/TR 19664:2017 has been approved by CEN as CEN ISO/TR 19664:2018 without any modification.

TECHNICAL REPORT

ISO/TR 19664

First edition
2017-05

Human response to vibration — Guidance and terminology for instrumentation and equipment for the assessment of daily vibration exposure at the workplace according to the requirements of health and safety

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Reference number
ISO/TR 19664:2017(E)

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Foreword

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This document was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*.

Introduction

Several kinds of device can be used to measure or estimate the vibration magnitude and exposure duration needed for the assessment of daily vibration exposure at the workplace.

Measuring instrumentation conforming to the requirements of ISO 8041-1 allows the user to perform good quality repeatable measurements. Measurements using a general-purpose vibration meter are typically undertaken when equipment (like a hand-held machine or a fork-lift truck) is in operation allowing attended, direct readings to be taken providing information regarding possible errors and transient acceleration artefacts. Unattended measurements can be taken using a personal vibration exposure meter, logging readings taken, for example, over a full working day to provide information regarding work patterns including transient acceleration artefacts. Using such instrumentation, the result is always a vibration value or a vibration dose based on vibration readings as taken by the instrumentation.

In addition, there exists auxiliary equipment which can support risk assessment. Such equipment might measure the duration of exposure or estimate the instantaneous vibration dose, using, for example, the information given by the manufacturer on the vibration emission of the machinery used, and might give information when vibration limits are approached or exceeded. Even though such auxiliary equipment does not constitute measuring instrumentation conforming to ISO 8041-1, it is currently used and can be advantageous for keeping occupational vibration limits and for systematic health and safety monitoring. When using such equipment, usually vibration is not really measured.

However, the differences between the instrumentation and equipment features lead to results of varying reliability. By giving guidance and explaining terminology, this document provides clarity regarding the limitations that can be expected when using different instrumentation and equipment for the assessment of daily vibration exposure at the workplace.